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T. Cade
1956-1959

Alaska

Catalogue

1956 #1-166
1957 #1-624
1958 #1-551
1959 #1-178

Journal

1956 incl. Weather Phenology Section
1957
1958 Mist Net Records
1959

T. Cade
1956-1959

Alaska

Catalogue

1956 #1-166
1957 #1-624
1958 #1-551
1959 #1-178

T Cade
1956

+S = flat skin

Specimen Register

+S 11 June #1 ♂ Ad M, Umiat - caught by hand on gravel road, L = 159 T = 34 Wt = 41.9 T 5.5 mm, ep +

+S 12 June #2 ♀ ad., Lem, Umiat - caught by hand on shrub-heath complex near transect #5. 133-12, wt=47.9, Emb 9 (4/5) 9 mm., Non-lact but mammae prominent, gap

+S #3 ♀ ad, Lem, Umiat, caught by hand on heath-shrub complex near T-5. 113-9; wt = 32.3 UH 3.5, milky and vascular, vagina gaping, no scars. non-lact., gap?

+S 15 June #4, ♂, Ad, Mo, Umiat, T6-7.6, 169-31, wt = 55.0 T 6.5, ep + (testes saved)

+S #5 ♂, Ad, Mo, Umiat, T6-4.2, 140-26, wt = 38.5 T 8.5, ep + (testis saved)

+S #6 ♂, Ad, Mm, Umiat, T6-0.2, 128-20, wt = 37.1 T 11.0, ep + (testis saved)

+S #7 ♀ Ad, Mo, Umiat, T6-4.8, 163-33, wt = 49.4 Emb 8 (6/2) 11 mm., non-lact, but mammary tissue forming, gap.

+S #8 ♂ Ad, Lem, Umiat, T4-8.4, 135-15, wt = 45.9 T 12.5, ep + gut & mouth filled w green sedge

+S #9 ♀ Ad, Dic, Umiat, T4-8.6, 118-10, wt = 52.0 Emb 5 (4/1) 7 mm, 1R resb, non-lact, bridge (?) → weak cartilaginous connection (ovaries saved)

+S #10 ♂, Ad, Sorex tundrensis, Umiat, T4-10.0, Not weighed or measured, T 6.0, ep +

+ #11 ♀ SA, Mm, Umiat - by a stack of dry willow leaves on shrub-heath complex, flood plain - SW airstrip., 119-23. wt = 21.0 UH 1.5, milky. no scars. Pelvis & skull crushed (ovary saved)

T. Cade
1956

Specimen Register

+S 15 June #12 ♂ Ad, Dic, Umiat, T4-1.0, 117-10, wt = 39.6
T9.5, ep+

+ #13 ♀ Ad, Mo, Umiat, T6-4.2. 155-32, wt = 40.4
Emb 7 (3/4) 11 mm. non-lact, but mammae prominent; gap (skull crushed).

+S 16 June #14 ♂ Ad, Cle, Umiat, T6-2.2., 115-20, wt = 17.6
T 11.0, ep+ (testis saved)

+S #15 ♂ Ad Mo, Umiat, T6-7.4, 160-34, wt = 48.2
T 8.0, ep+ (testis saved

+S #16 ♀ Ad, Lem, Umiat, T4-6.6, 128-12, wt = 46.6
Emb 7 (2/5) 10 mm, non-lact but mammae prominent, mammary tissue vascular in pectoral region, gap.

+S #17 ♂ Ad, Lem, Umiat, T4-3.6, 143-11, wt = 58.0
T12.0, ep+

#18 ♂, Ad, Mo, Umiat, T4-3.6, 169-38, wt = 54.5
T 8.5, ep+

+S #19 ♂, Ad, Lem, Umiat, T4-0.4, 126-9, wt = 45.3
T10.5, ep+

+S #20 ♀ Ad, Lem, Umiat, T4-0.0, 139-12, wt = 42.6
Emb 6 (5/1) 11 mm, not-lact, but mammae prominent, tissue forming, gap.

+S #21 ♂ Ad Mm, Umiat, same as #11. 144-21, wt = 39.4
T 11.0, ep+

#22 ♂ Ad, Mm, Umiat, same as #11. 133-20, wt = 35.3
T12.0, ep+ (skull crushed) (testis & skin glands saved)

+S #23 ♂ Ad, Mm, Umiat same as #11, 137-23, wt = 37.5
T11.0, ep+ (testis and skin gland saved)

T. Cade
1956

Specimen Register

16 June #24 ♀, Ad, Mm, Umiat, T6-0.2, 130-20, wt = 37.4
Emb 10 (5/5-1R resb) 8 mm, non-lact., gap. (ovaries saved)
#25 ♀ Ad, Mo, Umiat, 6-4.2., 145-30, wt = 32.9
UH 4.5, scars 6 (3/3) fresh, lact, gap. (chewed in neck while in trap)

17 June #26 ♂, Ad, Mm, Umiat, 6-0.4, 138-23, wt = 34.2
T 10.5, ep+

19 June #27, ♂, Ad, Lem, Umiat, T2-4.2, 127-12, wt = 39.7
T 10.0, ep+
#28, ♀, Ad Lem, Umiat, T8-9.6, 132-10, wt = 43.5
UH 5, scars 6 (3/3), lact., gap.
#29 ♂ Ad Lem, Umiat, T8-9.2, 138-11, wt = 45.4
T11, ep+

20 June #30 ♂ Ad, Cle, Umiat, T8-0.6, 129-30, wt = 22.4
T 10.5, ep+
#31 ♂ Ad Dic Umiat, T2-0.0, 114-8, wt = 40.3
T 8.0, ep+ (testis saved)

21 June #32 ♀ Ad Dic, Umiat, T2-6.8, 125-10, wt = 49.5
Emb 5 (4/1) 12 mm, non-lact, but mammae large, gap (ovary saved)
#33 ♀ Ad Mo, Umiat, T2-4.4, 138-28-wt = 38.3
Emb 8 (4/4) 12 mm, non-lact but mammae prominent, gap.
#34 ♂ SA Lem, Umiat, T2-7.2, 110-7, wt = 34.9
T 8.5, ep+
#35 ♂ Ad Lem, Umiat, T8-6.6, 141-11, wt = 59.3
T 12.0, ep+

23 June #36 ♂ Ad? Lem, Umiat, T3-4.6, 126-11, wt = 43.0
T 11.0, ep+ (testis saved) c.t. of cheeks thin — indicates S.A.?

T. Cade
1956

Specimen Register

23 June +S #37 ~~♀ Ad~~ ♂ SA? Lem, Umiat T1-5.4, 115-10, wt = 36.9
T ca. 7 (both crushed), ep+ (cheeks thin)

+S #38 ♂ SA Dic, Umiat T3-2.0, 115-7, wt = 33.3
T6.5, ep+ wad of dried semen on end of penis (testis saved)

+S #39 ♀ Ad Mo, Umiat T1-4.8, 145-29, wt = 44.6
Emb 6 (4/2) 22 mm, non-lact but mammae prominent,
gap (ovaries saved)

+S #40 ♀ Ad Lem, Umiat T1-2.4, caught by hand within
6 ft, 122-10, wt = 44.1 Emb 7 (4/3) 6 mm, non-lact, gap

24 June +S #41 ♂ SA Dic, Umiat T3-4.2, 100-7, wt = 27.6
T7.0, ep+? (testis saved)

+S #42 ♀ Ad Dic, Umiat T3-0.2, 125-7, wt = 54.1
Emb 6 (3/3 - 2R, 1L resb) 13 mm, nonlact, gap.

25 June +S #43 ♂ Ad Mo, Umiat T1-7.8, 155-31, wt = 52.5
T8.0, ep+ (testis saved)

24 June #44 ♂ Ad, Stercorarius parasiticus, Umiat, NW
of airstrip near T5. Was apparently paired with
a normal phase individual. wt = 398.5 gm. fat light

25 June +S #45 ♂ Ad Dic, Umiat T3-8.6, 120-9, wt = 43.8
T7.5, ep+ (testis saved)

+ #46 ♂ SA Dic, Umiat T3-10.0, 115-9, wt = 36.4
T7.0, ep+ (testis saved, skull broken not saved)

26 June +S #47 ♂ Ad Lem, Umiat T7-1.6, 123-10, wt = 43.0
T10.5, ep+

27 June +S #48 ♀ Ad Lem, Umiat T7-8.2, 134-12, wt = 76.0
Emb 7 (4/3) 22 mm, lact, gap, vagina gaping

T. Cade
1956

Specimen Register

27 June †S #49 ♂ Ad Mo, Umiat T7-1.0, 180-37, wt= 63.4
T9.0, ep+

28 June †S #50 ♂ Ad Dic, Umiat T7-10.0, 130-10, wt= 57.7
T9.0, ep+

† #51 ♀ Ad Mo, Umiat T7-1.0, 150-35, wt= 34.4
UH 2.0, no scars, uteri vascular & milky, non-lact, gap - vagina gaping. (neck & back of head chewed in trap, skull not saved)

29 June †S #52 ♂ Ad Dic, Umiat T7-10.0, 125-9, wt= 42.4
T 9.0, ep+

13 July †S #53 ♂ SA? Sorex , Umiat T5-7.6, 87-29,
wt= 4.4, T 4.0, ep+

†S #54 ♂ Ad Lem, Umiat T5-9.2, ~~[illegible]~~ 130-9, wt= ~~[illegible]~~ 46.4 gm.
~~[illegible], ep+~~ T10.0, ep+ (pelvis not saved)

†S #55 ♂ Ad Dic, Umiat T5-0.0, 119-8, wt= 40.0
T7.5, ep+ (testis saved)

14 July †S #56 ♀ Ad Mm, Umiat T9-1.8, 145-27, wt= 38.4
Emb 11 (4/7) 6 mm, lact(?) - mammae prominent & much milk fat under skin - gap. (skull crushed - not saved)

†S #57 ♀ Ad Lem, Umiat, T5-4.4, 134-10, wt= 41.3
UH 2.2, ~~[illegible]~~ Emb 8 (4/4) 3 mm, mammae prominent, non-lact, gap

†S #58 ♂ Ad Lem, Umiat, T9-9.0, 147-11, wt= 63.3
T12.0, ep+

†S #59 ♂ Ad Mm Umiat T9-8.8, 158-22, wt= 49
T12.0, ep+ (testis & skin gland saved)

†S #60 ♂ SA, Lem, Umiat T9-3.0, 111-8, wt= 27.0
T9.0, ep+ (testis saved)

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      49.
28 )1390
    112
     270
     252
     180
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T. Cade
1956

Specimen Register

14 July #61 ♀ Ad Mm, Umiat T9-10.0, 145-22, wt = 39.4
Emb 10 (4/6) 7mm mammae prominent, non-lact, gap

+ #62 ♂ SA Lem, Umiat T9-9.8, 122-9, wt = 33.1
T9.0, ep + (skull crushed - not saved)

+S #63 ♂ Ad Mm, Umiat T9-1.8, 149-24, wt. = 39.7
T10.0, ep + (testes + skin gland saved)

+S #64 ♀ Ad Mm, Umiat T9-6.6, 141-22, wt = 42.0
UH 2.0, scars 10 (5/5) lact, gap - very slight (ovary saved)

15 July #65 ♀ Ad Mm, Umiat T9-1.8, 150-26, wt = 38.5
Emb 12 (5/7) 8mm, lact, gap.

16 July #66 ♂ Ad Dic, Umiat on upper terrace near T5,
130-12, wt = 51.0, T9.0, ep+ (testis saved)

+S #67 ♀ Juv Mm, Umiat T9-5.6, 93-17, wt = 10.4
UH 1.0mm, non-lact, bridge (ovaries saved)

+S #68 ♀ ~~♂~~ Ad Mm, Umiat T9-1.4, 148-23, wt = 39
~~T , ep (testis saved)~~ Emb 10 (4/6) 4mm, lact,
gap. (ovary & skin gland saved)

18 July #69 ♀ Ad Mm, Umiat T10-4.8, 150-26, wt = 55.5
Emb 8 (2/6) 11mm, lact, gap

+S #70 ♀ Ad Mm, Umiat T10-9.0, 150-22, wt = 39.5
UH 2mm, ~~scars~~ Emb 9 (6/3) 2.5mm, lact, gap (ovary saved)

+S #71 ♂ Ad Mm, Umiat T10-6.8, 157-25, wt = 50.5
T12.0, ep+ (testis & skin gland saved)

+S #72 ♂ Ad Mm Umiat T10-5.2, 150-22, wt = ~~45.0~~ 45.0
T12.0, ep+ (skin very heavily infested w mites)

+S #73 ♂ SA Mm, Umiat T10-5.4, 128-20, wt = 24.0
T9.0, ep+ (testis saved)

+ #74 ♂ ~~♀~~ Juv Mm Umiat T10-2.6, 112-20, wt = 18.6
T4.0, ep - (testis saved - skull crushed in trap - not saved)

T. Cade
1956

Specimen Register

+S 18 July #75 ♀ Ad Mm, Umiat T10-2.8, 148-21, wt = 41.3
UH 2 mm, highly vascular - no scars visible, gap (ovary & gland saved)

S #76 ♀ Juv (SA?) Mm, Umiat T10-2.4, 120-21, wt = 25.4
Emb 6 (3/3) 15 mm - 1L res/b, lacteal fat forming, gap

+S #77 ♀ Juv (SA?) Mm Umiat T10-2.4, 120-20, wt = 27.8
Emb 5 (3/2) 15 mm, lacteal fat forming, gap

+S 19 July #78 ♀ Ad Mm Umiat T10-3.8, 145-20, wt = 47.2
UH 1.5, scars indistinct, lact, gap (ovary & gland saved)

+S #79 ♀ Ad Mm Umiat T10-5.8, 154-26, wt = 46.9
Emb 7 (4/3) 9 mm, lact, gap.

+S #80 ♀ SA Mm, Umiat T10-6.2, 135-21, wt = 32.3 Emb 8 (4/4)
15 mm, lacteal fat forming, gap

+ #81 ♂ Juv Mm Umiat T10-8.2, 110-19, wt = 14.0
T 5.0 ep- (testis saved) (skull crushed - not saved)

+S #82 ♂ Ad Mm Umiat T10-5.8, 150-24, wt = 40.5
T 10.0, ep+ (testis and skin gland saved)

+S #83 ♀ SA Mm Umiat T10-7.0, 130-21, wt = 31.2 Emb 8 (5/3) 10 mm
lacteal fat forming, gap

+S #84 ♂ Ad Mm, Umiat 10-2.6, 155-24, wt = 47.8
T 11.0, ep+ (testis and skin gland saved)

+S 20 July #85 ♀ SA, Mm Umiat T10-7.0, 129-20, wt = 31.0 Emb 7 (1/6) 10 mm
non-lact, gap

#86 ♂ SA or Juv? Mm, Umiat T10-0.8 - animal too badly
chewed in trap to be measured or weighed. Skin not saved
T 4.0, ep- (testis saved)

+S #87 ♂ Ad Mm, Umiat T10-5.8, 135-20, wt = 40.8
T 11.5, ep+

+S #88 ♂ Juv Mm Umiat T10-9.6, 110-17, wt = 14.0
T = 3.5, ep - (testis saved)

Cade

T. Cade
1956

Specimen Register

20 July #89 ♀ Ad Mm Umiat T10-3,8, 145-20, wt = 38.5
UH 2.0, no scars, visible gap (ovary saved) - lact.
#90 ♀ Ad Mm Umiat T10-0.8, 155-23, wt = 49.3
UH 1.5, scars (4/4) lact, gap (~~[illegible]~~ skin gland saved)
#91 ♂ juv? Mm Umiat T10-2.8 - specimen too badly chewed up in trap for measurements or weight - not saved.
T 4,0, ep -
#92 ♀ Juv Mm Umiat T10-2.8, 105-15, wt = 13.5 (thymus large - 8mm)
UH 0.5, no scars, non-lact, bridge, vagina open (ovary saved)
#93 ♂ Juv Mm Umiat T10-2.8, 110-15, wt = 14.8
T 5.0, ep - (testis saved) thymus = 8mm (skull crushed - not saved)

Cade
1956

Specimen Register

24 July – #94 ♂ Ad Dic, Saviovik River, 9.8, 69°40', 5 1/8"
T 5/16, ep+ (thymus 0)

fS #95 ♂ Juv Lem, Saviovik River, 4.0, 3 7/8", (thymus 2-lobed 10 mm long)
T 1/8" ep– testis abdominal

fS #96 ♂ Juv Lem, Saviovik River 9.4, 3 3/4" (thymus – 2 lobed 8 mm)
T 1/4" ep – (testis abdominal)

fS #97 ♂ Ad Lem, Saviovik River 5.2, 6 1/8", T 9/16" ep+
thymus 0

fS #98 ♂ Ad Cle, Saviovik R, 1.2, 5 5/8 – 1 1/8,
T 1/2", ep+, thymus 2-lobed – 3 mm long

fS #99 ♂ Ad Dic, Saviovik R 0.8, 5 3/4", T 6/16" ep+
thymus – trace

July – fS #100 ♀ Ad Dic, Saviovik R 9.2, 5 1/2" UH 1.5, scars 6 (5/1) lact,
gap, thymus 3 mm

fS #101 ♀ Ad Lem, Saviovik R. 7.4, 5 1/2" Emb 9 (3/6) 5 mm,
lact, gap, thymus – 3 mm

fS #102 ♂ Juv Lem, Saviovik R. 4.0, 4 3/16" T 3.0, ep –
thymus – 12.0 mm – ~~th~~ (testis abdominal)

fS #103 ♂ SA Dic, Saviovik R 3.2, 3 13/16", T 3/16, ep+
thymus – 8 mm, (testis scrotal)

fS #104 ♂ juv Dic, Saviovik R 1.8, 3" T 1/8, ep –, thymus – 7.0 mm
(testis abdominal)

fS #105 ♀ Ad Dic, Saviovik R. 0.8, 5", Emb 6 (1/5) 10 mm, lact.,
gap, thymus 3.0 mm.

July – fS #106 ♂ SA Lem, Saviovik R. 9.6, 115-9, wt = 29.5, T 7.5 mm, ep +
testis scrotal, thymus 10 mm UH 3, scars

August #107 ♀ Ad, Mo, Umiat T6 – 4.0, 155-31, wt = 40.0, ~~Emb~~ 4 (2/2) 3 mm –
~~vest? do not appear normal looking amorphous lumps in uterus~~. non-lact
but some lacteal fat present, gap (ovaries saved) thymus 8 mm

fS #108 ♀ Ad, Mo, Umiat T6 – 0.4, 160-27, wt = 55.0, UH 1.0, scars 7 (5/2),
lact, gap (almost closed), ovaries saved, thymus 0, skin gland saved also

fS #109 ♂ Ad, Mo, Umiat T6 – 0.2, 147-31, wt = 36.5, T 9.0, ep+ (testis
saved), ~~thymus~~ (skin gland saved) thymus medium, testis scrotal

fS #110 ♀ Ad Mo, Umiat T4 – 10.0, 155-30, wt = 42.0, Emb 8 (5/3) 5 mm, lact,
gap (ovaries and skin gland saved) thymus small

fS #111 ♂ SA Lem, Umiat T4 – 8.8, 110-9, wt = 27, T 8.0, ep+, testis scrotal,
(testis saved) thymus small – obscured by blood clot

fS #112 ♂ SA Lem, Umiat T4 – 3.0, 105-9, wt = 23.2, T 6.5, ep –, testis abdominal
(testis saved) thymus – medium

Specimen Register

3 August #113 ♀ SA? Mo, Umiat T4-6.2, 147-30, wt = 31.8 UH 3.0, scars 6 (4/2), lact, gap, (ovaries saved) thymus medium very enlarged skin glands

+S #114 ♂ SA Lem, Umiat T4-1.2, 120-10, wt = 31.7, T9.0, ep+ testis scrotal, thymus small, cheek skin thin

+S #115 ♀ Ad Mo, Umiat T4-3.8, 164-35, wt = 43.4 Emb 7 (#13-1R resb) 8 mm, lact, gap, thymus 0. (Ovaries saved)

August #116, ♂ Ad Mo, Umiat T6-7.4, 142-29, wt = 31.2, T7.0, ep+, testis scrotal, (testis saved) thymus small (skin gland saved also)

+S #117 ♂ SA Cle, Umiat T4-5.8, 115-25, wt = 15.4, T5.5, ep, testis abdominal, (testis saved), thymus medium

+S #118 ♀ Ad Mo, Umiat T6-4.0, 161-34, wt = 48.0 Emb 8 (4/4) 17 mm, non-lact but some lacteal fat present, gap, thymus small (ovaries saved)

+S #119 ♂ Juv Mm, Umiat T6-0.4, 116-18, wt = 17.3, T4.0, ep-, testis abdominal (testis saved), thymus

+S #120 ♂ SA Lem, Umiat T4-1.0, 123-11, wt = 30.2, T10.0, ep+, testis scrotal, thymus small

+S #121 ♀ Ad Lem, Umiat T4-1.2, 143-11, wt = 57.0, UH 5. scars 7 (4/3) large lact, gap, thymus trace

+S #122 ♂ Juv ~~Mm~~ Lem, Umiat T4-0.8, 97-7, wt = 13.1, T , ep , (testis abdominal (testis saved), thymus large

#123 ♀ Juv Mm, Umiat T6-0.2, 113-17, wt = 18.5, UH less than 1.0, non-lact, bridge, (ovaries saved) thymus large.

August #124, ♂ Juv Mm, Umiat T6-0.4, 115-17, wt = 18.7, T3.0, ep-, testis abdominal (testis saved), thymus large

+S #125, ♂ Juv Mm, Umiat T6-0.4, 117-15, wt = 17.9, T3.0, ep-, testis abdominal (testis saved), thymus large

+S #126 ♀ Juv Mm, Umiat T6-0.6, 115-20, wt = 14.8,

+S #127 ♂ Ad Mm, Umiat T6-0.4, 159-20, wt = 48.6, T11.0, ep+ testis ~~scrotal~~ abdominal (testis saved), thymus trace (skin gland saved)

+S #128 ♀ Ad Mm, Umiat T6-0.6, 153-22, wt = 44.0, UH 1.2, scars indistinct-at least 7 (2/5), non-lact but some lacteal fat present, gap nearly closed, (ovaries saved) thymus 0, (skin gland saved)

August #129 ♂ Ad Lem, Umiat T8-9.8, 145-13, wt = 57.0, T10.0, ep+, testis scrotal, thymus trace (skin gland saved)

+S #130 ♂ SA, Lem, Umiat T8-6.2, 117-10, wt = 25.7, T7.5, ep+, testis scrotal, thymus small.

+S #132 ♀ Juv, Lem, Umiat T8-9.4, 99-10, wt = 15.5, UH 1.0, non-lact, bridge (weak in center), thymus medium (ovaries saved)

+S #133 ♀ Juv Lem, Umiat T-8-9.6, 105-10, wt = 21.0, UH 2.0, milky, non-lact, bridge, thymus small (ovaries saved)

♀ #134 ~~♂~~ ♀ Juv Mo, Umiat T2-7.6, 124-23, wt = 17.2, ~~T , ep~~, ~~testis abdominal~~, thymus ~~medium~~ (~~testis~~ ovaries saved) UH 1.0, non-lact, bridge

Cade
956

Specimen Register

7 August #135 ♂ Ad Lem, Umiat T2-1.6, 149-10, wt = 60.6, T10.0, ep+
testis scrotal, thymus small , (skin gland saved)

fS #136 ♀ Ad Lem, Umiat T2-7.4, ~~136~~ 131-11, wt = 46.2, UH 2.0, scars 7 (5/2), lact, gap, thymus-trace.

fS #137 ♂ Ad Lem, Umiat T8-5.2, 147-10, wt = 57.0, T , ep , testis scrotal, thymus

fS #138 ♀ Ad Lem, Umiat T2-3.8, 129-11, wt = 41.5 UH 3.0, scars 5 (2/3) lact, gap, thymus small.

8 August #139 ♀ Juv Lem, Umiat T8-0.2, 110-10, wt = 20.5, UH 1.0, non-lact, bridge, thymus medium. (ovaries saved)

fS #140 ♂ Juv Lem, Umiat T8-0.2, 110-11, wt = 22.9, T4.5, ep -, testis abdominal, thymus large (testis saved)

fS #141 ♂ Ad Lem, Umiat T2-0.4, 138-10, wt = 58.0, T10.0, ep +, testis scrotal, thymus small - large abcess left hind leg - rump chewed in trap

fS #142 ♀ Juv Lem, Umiat T2-0.2, 99-8, wt = 21.6, ~~T , ep , t~~ Emb 4 (2/2) 10 mm, non-lact, bridge - weak in center. (ovaries saved)

August #143 ~~♂~~ ♀ Juv Lem, Umiat T2-0.6, 105-11, wt = 18.5, UH 2.0, milky, lact, bridge (ovaries saved)

August #144 ♂ Sorex Umiat T8-3.4, 100-30, wt = 6.4, T1.5 thymus medium

August #145 ♂ Sorex Umiat T8-5.2, 99-30, wt = 5.5, T2.0,

August #146, ♂ Ad Lem Umiat T3-2.8, 144-11, wt = 52, T10.0, ep +, testis scrotal, thymus small

f #147 ♂ Juv Lem, Umiat T1-8.0, 98-10, wt = 12.5, T3.5, ep -, testis abdominal, thymus large

August #148 ♀ Ad Lem, Umiat T3-3.0, 125-10, wt = 35.5, UH 2.0, scars 4 (2/2), lact, gap, thymus medium. (skull crushed - not saved)

f #149 ♂ SA, Lem, Umiat T1-8.2, 125-10, wt = 29.5, T8.0, ep +, testis abdominal ~~scrotal~~ (just), thymus medium

f #150 ♀ SA Dic, Umiat T3-9.6, 110-8, wt = 27.0, UH 1.0, no scars, non-lact, bridge (cut accidentally w scissors) thymus medium (ovaries saved),

f #151 ♀ Juv Mm, Umiat T3-8.6, 95-15, wt = 10.0, UH 0.5, no scars, non-lact, bridge, thymus large (ovary saved).

f #152 ♂ SA, Lem, Umiat T3-5.4, 125-10, wt = 26.5, T8.0, ep +, testis abdominal, thymus small (skull crushed - not saved)

f #153 ♂ SA, Lem, Umiat T3-3.8, 124-10, wt = 29.7, T4.5, ep -, testis abdominal, thymus medium

August #154, ♀ SA Mo, Umiat 7-1.4, 125-23, wt = 20.0, UH 1.0, no scars, non-lact, bridge, thymus medium (ovaries saved)

f #155, ♀ Ad Lem, Umiat T7-7.8, 123-10, wt = 47.8, Emb 5 (2/3) 12 mm, lact, gap, thymus small.

f #156 ♀ Ad Lem, Umiat T7-7.6, 125-11, wt = 49.5, Emb 8 (5/3) 17 mm, lact, gap, thymus small

Cade
956

Specimen Register

15 August #157 ♀ Juv Mo, Umiat T7-1.2, ~~119~~ 119-25, wt = 15.2, UH 0.5, non-lact, bridge, thymus large (ovaries saved),
#158 ♀ ♂ Juv Mo, Umiat T7-1.4, 130-30, wt = 20.3, T 3.0, ep -, testis abdominal, thymus large (testis saved).
#159 ♂ Juv Mo, Umiat T7-1.2, 121-23, wt = 16.0, T 2.0, ep -, testis abdominal, thymus large (testis saved).
#160 ♂ SA Lem, Umiat T5-2.2, 120-9, wt = 27.2, T 8.0, ep +, testis abdominal, thymus medium (skull crushed - not saved)
#161 ♀ Juv Dic, Umiat T5-5.6, 103-7, wt = 20.2, UH 0.5, no scars, non-lact, bridge (accidentally cut) thymus medium
#162 ♀ Juv Dic, Umiat T5-2.4, 105-7, wt = 21.5, UH 0.5, no scars, non-lact, bridge, thymus medium,
ugust #163 ♀ Ad Lem, Umiat T7-1.4, 130-10, wt = 31.5, UH 2.0, scars 4 (4/0), lact, gap, thymus small
#164 ~~♂~~ ♀ Ad Lem, Umiat T5-2.2, 134-11, wt = 31.5, UH 1.5, scars indistinct, at least 3 (2/1), non-lact, gap, thymus small.
#165 ♂ SA Lem, Umiat T5-2.0, 120-11, wt = 29.2, T 8.0, ep +, testis nearly scrotal, thymus medium
ugust #166 ♂ Ad Lem, Umiat T5-3.2, 151-10, wt = 54.0, T 10.0, ep +, testis scrotal, thymus small

Cade
1957

L

Specimen Register

30 May

#1 ♂ A, Lem, Barrow Village, 140-18, wt = 46.7; T 11, ep+, thymus obscured.

2 ♀ SA?, Lem, Barrow Village, 110-16, wt = 28.4, UH 1.0, bridge, Thymus medium

3 ♂ A?, Lem, Barrow Village, 124-16, wt = 30.9, T 10, ep -, thymus small.

29 May 4 ♀? Juv, Lem, Barrow Village, 101-10, wt = 21.6 UH -1.0, bridge - ? sex - viscera soupy.

5 ♀ SA, Lem, Barrow Village, 105-11, wt = 22.8, UH 1.5 gap, uterus milky Thymus small.

6 ♀ Ad, Lem, Barrow Village, 130-15, wt = 37.5 UH 1.0, bridge

28 May 7 ♂ Juv or SA?, Lem, Barrow Village, 97-14, wt = 20.5, T 7.0, ep - , Thymus medium

8 ♀ Juv or SA?, Lem, Barrow Village, 93-13, wt = 16.0, UH -1.0, bridge, Thymus obscured by blood

(RL) 31 May 9 ♂ Ad Dendroica coronata, Barrow, Alaska, wt = 16.4, testis 7 x 5, heavy fat.

(RL) 10 ♂ Ad, Erolia bairdii, Barrow, Alaska, wt = 41.5 g, testis 8 x 4.5, heavy fat. ✓

(RL) 1 June 11 ♂ Ad Erolia alpina, Barrow, Alaska, wt = 56.0 g, testis 9.5 x 5, moderate fat. ✓

(RL) 12 ♀ Ad Pluvialis dominica, Barrow, Alaska, wt = 172.5 g. Largest follicle = 6 mm, heavy fat. ✓

Dup. #'s

(ARL) 31 May 12 ♀ Ad Anser albifrons, Meade River, wt 2250 gm largest follicle = 25 mm. Moderate fat. Collected by Pete Savalik

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1957

L

Specimen Register

5 June, Barrow Village, Alaska

#13 ♀ Juv, Lem, 112-13, wt= 19.1, UH -1.0, bridge, skull not saved.

14 ♀ Ad, Lem, 125-14, wt= 31.8, UH 1.5, bridge, uterus milky, vagina gaping, skull not saved.

4 June Wainwright, Alaska

#15 ♀ Ad? Lem, 116-13, wt=26.1, UH 1.5, gap?, uterus milky

16 ♀ SA? Lem, 120-14, wt = 36., UH 1.0, bridge

17 ♂ SA, Lem, 110-13, wt= 27.2, testis = 8, ep+

18 ♀ SA, Lem, 125-17, wt= 30.5, UH =-1.0, bridge, vagina not open.

19 ♂ SA, Lem, 112-12, wt= 27.5, testis = 9.0, ep+

20 ♀ SA, Lem, 115-14, wt= 31.5, UH 1.5, bridge, vagina gaping.

21 ♀ SA, Lem, 105-11, wt= 26.5, UH -1.0, bridge, vagina closed.

22 ♂ Ad, Lem, 145-18, wt= 57.4, testis 12.0, ep+

23 ♂ Ad, Lem 145 (tail cut off ½) wt= 61.0, testis 12.0, ep+

24 ♀ Ad, Lem, 135-17 wt= 48.4, UH= 2.0, bridge, scars 5 (2/3) non-lact.

25 ♂ Ad, Lem, 132-12, wt= 43, testis 11.0, ep+

26 ♀ Ad, Lem, 140-17, wt= 47.5, UH 1.0, bridge, no scars

27 ~~♀~~♂ Ad, Lem, 147 (tail cut ½) wt= 77.1, testis 13.0, ep+

28 ♀ Ad, Lem, TL 151, wt= 66.1, UH 2.0, gap, scars 8 (4/4) non-lact.

29 ♂ Ad, Lem, ~~[illegible]~~ TL=140, wt= 42.0, testis 11.0 ep +

All this page to Rausch

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1957

Specimen Register

5 June Wainwright, Alaska

\# 30 ♂ Ad, Lem, TL 147, wt = 64.2, testes 10.0 ep +

31 ♀ Ad, Lem, TL 142, wt = 48.8, UH 1.5, gap, no scars non-lact.

32 ♀ Ad, Lem, TL 161, wt = 58.5, UH 2.0, gap, scars 8 (4/4) ?, non-lact.

33 ♀ Ad, Lem, TL 156, wt = 54.0, UH = 2.0, gap. scars 8(6/2) non-lact.

34 ♂ Ad, Lem, TL 135, wt = 45.5, testes 12.0 ep +

35 ♂ Ad, Lem, TL 136, wt = 57, testes 10.5, ep +

36 ♀ Ad, Lem, TL 155, wt = 56.5, UH 2.0, scars 14 (5/9), gap, non-lact.

37 ♂ SA, Lem, TL 111, wt = 27, testes 7.0, ep −

38 ♀ SA, Lem, TL 109, wt = 25.0, UH 1.5, bridge, vagina gaping, uterus milky.

39 ♀ SA, Lem, TL 120, wt = 32, UH 1.5 bridge, vagina gaping, uterus milky

40 ♀ SA?, Lem, TL 108, wt = 20.0, UH 1.0, bridge, vagina open but small.

All this page to Rausch

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Specimen Register

4 June Wainwright, Alaska - native caught

All this page to Rausch

Recorded by Henry Childs - pelt retained

	Sex	Species	Trap Line	TL/T	WT	Testis UH	Vplug ept ±	Bridge Gap	Emb	Scars	Lact
41	♀ A	LEM		130	47.9	1	+	Br	0	0	—
42	♂ A			130	46.2	11	+				
43	♂ A			142	65.7	11	+				
44	♂ A			155	78.8	12	+				
45	♀ A			135	46.4	1.5	Vg op —	Br	0	0	—
46	♂ A			145	39.8	13	+				
47	♀ A			150	55.8	4.5	Vg cl —	gap	0	6(4-2)?	—
48	♀ A			150	62.8	2	—	gap	0	7(6-1)	—
49	♀ A			130	35.0	1	—	?	0	0	—
50	♀ SA			110	25.7	3	—	Br	0	0	—
51	♀ SA			120	28.7	1	—	Br	0	0	—
52	♂ A			135	48.1	6	—				
53	♀ A			148	43.5	1	Vg cl	Br?	0	0	—
54	♀ SA			125	34.3	<1	Vg cl	Br	0	0	—
55	♀ SA			110	28.3	1.5	Vg op —	Br	0	0	—
56	♂ SA			115	32.4	8	+				
57	♂ SA-			100	20.7	6	—				
58	♀ SA-			103	22.0	<1	Vg cl	Br	0	0	—
59	♀ J+			98	20.0	.1	Vg cl	Br	0	0	—
60	♀ J			100	20.0	1	Vg op	Br	0	0	—
61	♂ A			140	64.7	13	+				
62	♂ A			145	61.2	11	+				
63	♀ ~~♂~~ A			145	70.5	<1	Vg cl —	gap ~~Br~~	0	indistinct	—
64	♀ A			135	46.2	2	+	gap ~~Br~~	0	0	—
65	♀ A			145	52.2	<1	Vg cl —	gap	0	0	—
66	♂ A			135	40.0	10	+				
67	♂ A			130	39.0	11	+				

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Specimen Register

4 June, Wainwright, Alaska, native caught

	Sex	Species	Trap Line	TL/T	WT	Testis UH	V plug ep ±	Bridge Cap	Emb	Scars	Lact
68	♂ A	LEM		145	57.7	12	+				
69	♂ A			125	41.9	11	+				
70	♂ A			130	40.3	10	+				
71	♂ A			125	34.2	9	+				
72	♀ A			125	33.0	1	—	Br	0	0	—
73	♂ SA			120	30.3	8	+				
74	♀ SA			110	28.4	<1	+	Br	0	0	—
75	♂ SA			115	26.5	6	—				
76	♂ SA ~~♂ SA~~			110 ~~125~~	27.8 ~~26.9~~	7 ~~7~~	+ ~~?~~				
77	♂ SA			125	26.9	7	?				
78	♂ SA			100	24.6	7	+				
79	♀ J			95	17.3	<1	Vgcl	Br	0	0	—
80	♀ J			100	15.2	<1	Vgcl	Br	0	0	—
81	♂ A			170	80.1	10	+				
82	♂ A			160	79.4	12	+				
83	♀ A			155	52.4	2	—	gaps	0	Indistinct	—
84	♂ A			141	56.8	13	+				
85	♂ A			141	54.4	11	+				
86	♂ A			134	47.0	11	+				
87	♀ A			130	38.0	1	—	Br	0	0	—
88	♂ A			128	35.4	9	+				
89	♂ SA			125	32.8	9	+				
90	♂ A			132	36.7	9	+				
91	♀ SA			120	35.8	1	Vgcl	Br	0	0	—
92	♀ A			158	68.8	2	—	gaps	0	7(3-4)	+
93	♂ SA			115	30.0	8	+				

All this page to Kessel
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Specimen Register

All this page to Research

Recorded by Henry Childs

4 June, Wainwright, Alaska - native caught

	Sex	Species	Trap Line	TL/L	WT	Testis UH	V plug ept	Bridge Gap	Emb	Scars	Lact
94	♂ SA	LEM		117	27.8	8	+				
95	♀ SA			110	26.3	<1	Vgel	Br	0	0	—
96	♀ SA			105	23.6	<1	—	Br	0	0	—
97	♀ J			~~[illegible]~~ 102	~~[illegible]~~ 20.3	<1	Vgel	Br	0	0	—
98	♀ J			~~100~~ 95	~~19.7~~ 16.8	<1	Vgel	Br	0	0	—
99	♀ J			100	19.7	<1	Vgel	Br	0	0	—
100	♀ SA-			110	26.4	<1	Vgel	Br	0	0	—
101	♂ SA			121	30.2	6	—				
102	♀ SA			125	44.1	3	No plug Vgope	gap	0	—	—
103	♂ SA			118	32.0	10	+				
104	♀ SA? J+			120	29.5	<1	Vgel	Br	0	0	—
105	♀ SA			119	29.9	1	+	Br	0	0	—
106	♀ J			105	25.0	1	Vgel	Br	0	0	—
107	♀ J			108	28.1	1	Vgel	Br	0	0	—
108	♀ SA			120	30.0	1	Vgop —	sm. gap	0	0	—
109	♂ SA			104	20.0	6	—				
110	♀ SA			105	22.3	1	Vgel —	Br	0	0	—
111	♂ SA-			100	19.8	7	+				
112	♂ SA-			109	24.7	8	+				
113	♂ SA-			110	24.7	7	+				
114	♂ SA-			109	23.8	7	—				
115	♀ SA-			110	22.2	<1	Vgel —	Br	0	0	—
116	♂ SA-			107	23.6	6	—				

5 June Wainwright, Alaska, native caught

	Sex	Species	Trap Line	TL/L	WT	Testis UH	V plug ept	Bridge Gap	Emb	Scars	Lact
117	♂ A			144	59.5	11	+				
118	♂ A			138	43.6	10	+				

Cade
1957

Specimen Register

5 June Wainwright, Alaska, native caught

	Sex	Species	Trap Line	TL/L	WT	Testis UH	V plug ept	Bridge Gap	Emb	Scars	Lact
119	♀ A	LEM		150	58.0	1.5	—	gap	0	10(3-7)	—
120	♀ A			130	40.0	1	—	Br	0	0	—
121	♂ A			no tail 125	57.5	11	+				
122	♀ A			134	41.6	2	—	Br	0	0	--
123	♂ A			131	36.1	9	+				
124	♀ A			126	32.6	1	—	Br	0	0	—
125	♂ A-			120	34.6	8	+				
126	♂ SA			118	27.3	9	+				
127	♂ A			132	39.8	9	+				
128	♀ A-			133	43.0	milky 1.5	—	Br	0	0	—
129	♂ SA			120	28.5	8	+				
130	♀ SA			120	24.5	<1	Vgcl	Br	0	0	—
131	♀ SA			113	26.2	<1	Vgcl	Br	0	0	—
132	♀ SA-			110	26.1	<1	Vgcl	Br	0	0	—
133	♀ SA-			110	23.9	<1	Vgcl	Br	0	0	—
134	♀ SA-			110	24.8	1	Vgcl	Br	0	0	—
135	♂ J+			103	19.1	6	—				
136	♂ J			90	12.7	3	—				
137	♀ A			152	48.3	2.5	—	gap	0	7(4-3)	+?
138	♂ A			150	61.3	10	+				
139	♀ A			150	62.4	2	—	gap	0	8(5-3)	—
140	♂ A			140	49.6	11	+				
141	♀ SA			130	34.0	<1	Vgcl	Br	0	0	—
142	♂ A			148	58.5	12	+				
143	♂ A			145	48.7	12	+				
144	♂ SA			111	26.9	8	+				

All this page to Rausch
Recorded by Henry Childs
pelts not saved

Cade
1957

Specimen Register

5 June Wainwright, Alaska - natives caught

All this page to Research
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145	♀ SA	LEM	125	32.7	1	Vgcl	Br	0	0	—
146	♀ SA		115	30.8	milky 2	—	Br	0	0	—
147	♀ SA		125	31.2	milky 1.5	Vgop	Br	0	0	—
148	♂ SA		130	41.2	11	+				
149	♂ SA		125	36.3	8	+				
150	♀ SA		113	29.8	milky 2.5	Vgop	Br?	0	0	—
151	♀ SA		112	31.6	<1	Vgcl	Br	0	0	—
152	♀ SA		119	33.2	1	Vgcl	Br	0	0	—
153	♀ SA		120	28.2	<1	Vgcl	Br	0	0	—
154	♀ SA		115	28.2	1	Vgcl	Br	0	0	—
155	♀ SA—		107	19.8	<1	Vgcl	Br	0	0	—
156	♂ SA—		117	22.3	7	—				
157	♀ SA—		102	18.9	<1	Vgcl	Br	0	0	—
158	♂ A		141	51.9	11	+				
159	♂ A		143	46.7	10	+				
160	♀ A		158	71.0	1	—	gap	0	indistinct	—
161	♂ A		145	53.6	12	+				
162	♂ SA—		100	17.5	crushed					
163	♂ A		141	64.2	10	+				
164	♀ A		158	58.6	2.5	—	Gap	0	15(9-6)	—
165	♂ A		135	48.0	Crushed					
166	♀ A		155	53.1	1	—	gap	0	indistinct	—
167	♂ A		147	55.5	11	+				
168	♀ A		140	49.8	1.5	+	Gap	0	5(4-1)	—
169	♂ A		146	53.9	12	+				
170	♂ A		144	60.1	crushed					
171	♀ SA		135	35.8	1	Vgop	Br	0	0	—

Code
1957

Specimen Register

5 June, Wainwright, Alaska - native caught

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Recorded by Henry Childs

172	♀ SA	LEM		119	32.6	1	Vgop	Br	0	0	—
173	♂ SA			115	26.8	9	+				
174	♂ SA			110	25.2	5	—				
175	♀ SA			110	26.1	1	Vgop	Br?	0	0	—
176	♀ SA			110	23.6	<1	Vgop	Br	0	0	—
177	♂ A			135	57.7	12	+				
178	♀ A			144	54.2	milky 2	—	gap	0	0	—
179	♂ A			154	65.9	9	+				
180	♀ A			134	39.5	1	—	Br	0	0	—
181	♀ A			149	54.2	3.5	—	gap	0	6(3-3)	?
182	♂ A			146	52.1	9	+				
183	♀ SA			123	24.8	1.5	—	Br	0	0	—
184	♂ A			138	42.8	10	+				
185	♀ A			145	40.9	1	Vgcl	Br	0	0	—
186	♀ A			137	47.7	1	Vgcl	Br	0	0	—
187	♂ SA			125	32.0	9	+				
188	♀ A			131	37.2	1	—	Br	0	0	—
189	♀ SA			122	30.9	1	—	Br	0	0	—
190	♀ SA			124	30.5	milky 1.5	—	Br	0	0	—
191	♂ SA			120	28.3	9	+				
192	♀ SA-			115	22.2	<1	Vgcl	Br	0	0	—
193	♂ SA-			112	27.2	7	+?				
194	♀ SA-			100	18.7	1	Vgcl	Br	0	0	—
195	♂ SA-			113	26.7	6	—				

4 June

196	♂ A			160	77.4	12	+				
197	♀ A			150	64.3	1	—	gap	0	9(4-5)	—
198	♂ A			135	51.2	11	+				

Cade
1957

Specimen Register

7 June, Wainwright, Alaska - native caught

All this page to Rausch
Recorded by Henry Childs

199	♀ A	LEM	138	50.0	2	Vgd	Gap ~~[illegible]~~	0	10 (6-4)	—
200	♀ A		150	47.9	2	—	Gap	0	0	—
201	♀ SA		116	30.4	<1	Vgd	Br	0	0	—
202	♂ SA		120	32.8	8	+				
203	♀ SA		128	34.6	milky 1	—	Br	0	0	—
204	♀ SA		122	34.6	milky 1	—	Br	0	0	—
205	♀ SA		125	38.6	1	Vgd	Br	0	0	—
206	♂ SA		124	31.1	9	+				
207	♀ SA		115	28.5	milky 2	—	Br	0	0	—
208	♀ SA		112	31.7	milky 2	Vgd	Br	0	0	—
209	♀ SA		115	23.2	1	Vgd	Br	0	0	—
210	♀ SA		119	32.2	milky 1.5	—	Br	0	0	—
211	♀ SA		116	28.7	1	Vgd	Br	0	0	/
212	♂ SA		110	23.8	9	+?				
213	♂ J+		98	18.5	6 ~~[illegible]~~	— ~~Vgd~~	~~Br~~			
214	♂ SA		112	25.2	5	—				
215	♀ SA-		100	18.5	1	Vgd	Br	0	0	—
216	♀ A		144	50.0	milky 2	—	Gap	0	9 (4-5)	—

Cade
1957

Specimen Register

11 June, Wainwright, Alaska

No.	Sex	Species	Trap Line	TL/T	wt	testis UH	Vplug ept	Bridge Gap	Emb	Scars	Lact
217	♂SA	Lem	1-0.0	122	38.7	10.0	+				
218	♂Ad		2-1.2	145	81.0	12.0	+				
219	♂SA		1-6.6	122	37.3	9.0	+				
220	♂SA+		1-0.0	135	47.9	?	?				
221	♀Ad		1-0.8	153	58.2	2.5	—	br	6(3/3) 3mm	0	[illegible]
12 June 222	♀SA		1-10.0	117	35.1	2.5	—	Br	7(6/1) 4mm	0	—
223	♀SA+		2-6.8	124	41.1	2.0	—	gap	6(3/3) 7mm	0	—
224	♀Ad		4-7.0	130	50.5	2.5	—	Br	8(4/4) 3mm	0	—
225	♂Ad		3-6.4	152	82.2	13.0	+				
226	♀Ad		3-4.6	146	49.5	2.0	—	Br	10(5/5) 4mm	0	—
227	♂Ad		3-6.4	140	63.5	10.0	+				
228	♂SA+		4-5.2	130	48.5	11.0	+				
229	♂Ad		2-2.4	140	55.0	12.0	+				
230	♀Ad		2-3.0	138	47.2	2.0	—	Br	8(1/7) 3.5mm	0	—
231	♂SA		1-2.0	120	33.3	9.0	+				
232	♀Ad		3-3.8	143	65.1	2.0	—	Br?	9(4/5) 6mm	0	—
233	♀SA		3-6.8	123	34.0	2.0	—	Br	6(1/5) 3.5mm	0	—
234	♂Ad		2-4.0	140	72.4	12.0	+				
this No. only 235	♂SA−		1-9.8	113	30.5	7.0	+				
236	♀Ad		1-4.0	152	64.8	2.0	—	gap	8(4/4) 8mm	0	—
237	♀Ad		2-9.2	139	64.3	2.0	—	gap	8(2/6) 5mm	0	—
238	♂Ad		1-1.8	153	85.8	?	?				
239	♀Ad		4-8.4	145	64.1	2.0	—	gap	8(6/2) 3mm	0	—
240	♂Ad		3-9.8	151	74.4	13.0	+				

13 June, Wainwright

No.	Sex	Species	Trap Line	TL/T	wt	testis UH	Vplug ept	Bridge Gap	Emb	Scars	Lact
241	♂SA−		1-9.8	110	27.6	7.0	—				

Specimen Register

13 June, Wainwright

No.	Sex	Species	Trap Line	TL/T	wt	testis UH	V plug ept	Bridge Bup	Emb	Scars	Lact
242	♀Ad	Lem	1-3.2	142	57.9	2.0	–	gap	8(1/7) 4 mm	0	–
243	♂Ad	}	1-2.2	145	62.0	12.0	+				
244	♂SA	}	1-0.0	120	34.5	8.0	+				
245	♂Ad	}	1-10.0	155	77.4	13.0	+				
246	♂Ad		3-2.0	153	73.0	13.0	+				

19 June, Umiat, Alaska

No.	Sex	Species	Trap Line	TL/T	wt	testis UH	V plug ept	Bridge Bup	Emb	Scars	Lact
247	♀Ad	Mo	4-3.4	150-28	54.0	large	–	gap	6(3/3) 25 mm	⊖	+
248	♂Ad	Mo	4-3.6	174-40	67.1	8.0	+				
249	♂Ad	Mm	9-7.8	150-22	49.9	11.0	+				
250	♂Ad	Mo	4-3.6	160-30	50.3	8.5	+				
251	♂Ad	Mm	9-7.8	142-20	45.6	11.5	+				
252	♀Ad	Sorex tundrensis	4-4.2	114-32	13.0	?	–	gap	?	?	+
253	♂Ad	Mo	4-3.4	170-35	52.0	9.0	+				
254	♂Ad	Lem	4-1.0	145	72.3	10.0	+				

20 June, Umiat Alaska

No.	Sex	Species	Trap Line	TL/T	wt	testis UH	V plug ept	Bridge Bup	Emb	Scars	Lact
255	♀Ad	Lem	4-8.8	143	64.5	3.0	–	gap	6(3/3) 16 mm	0	–
256	♂Ad	Mo	4-3.8	140-30	54.0	11.0	+				
ll crushed 257	♂Ad	Sorex tundrensis	4-10.0	94.0-33.0	9.3	6.5	+				

21 June, Umiat, Alaska

No.	Sex	Species	Trap Line	TL/T	wt	testis UH	V plug ept	Bridge Bup	Emb	Scars	Lact
258	♂Ad	Lem	4-3.2	139	57.0	11.0	+				
259	♀SA	Lem	4-1.0	118	34.5	4.0	–	gap	0	5(1/4) large	+
260	♀Ad	Mo	4-3.4	161-35	54.0	2.0	–	gap	9(2/7) 9 mm	0	+
261	♂Ad	Sorex tundrensis	4-3.4	100-29	9.5	6.5	+				

22 June, Umiat, Alaska

No.	Sex	Species	Trap Line	TL/T	wt	testis UH	V plug ept	Bridge Bup	Emb	Scars	Lact
262	♀Ad	Dic	7-2.6	126	55.7	2.5	–	gap	8(4/4) 14 mm	0	+
263	♂Ad	Lem	7-5.2	143	64.3	11.0	+				

Specimen Register

22 June Cont

No	Sex	Species	Trap Line	TL/T	wt	testis UH	V plug ep ±	Bridge gap	Emb	scars	Lact
264	♂Ad	Lem	7-5.4	136	56.9	11.0	+				
265	♂Ad	Mo	7-7.8	161-34	55.1	9.0	+				
266	♂Ad	Lem	1-1.8	135	55.7	11.0	+				
23 June, Umiat, Alaska											
267	♀Ad	Lem	7-4.4	135	69.3	–	–	gap	8(5/3) 25 mm	0	+
268	♂Ad	Lem	7-5.2	140	55.8	11.0	+				
269	♂SA	Lem	3-3.2	113	34.0	7.0	+				
270	♀Ad	Dic	3-10.0	136	70.0	—	-	gap	9(5/4) 13 mm	0	+
271	♂Ad	Dic	7-5.8	135	55.1	9.0	+				
24 June, Umiat, Alaska											
272	♂Ad	Lem	7-1.4	139	44.3	10.0	+				
273	♂Ad	Lem	7-1.6	141	61.5	11.0	+				
274	♀SA	Lem	7-5.2	125	50.0	-	-	gap	5(3/2) 22 mm	0	+

22 June ♂Ad Lagopus mutus, near T3. wt = 430.8g., testis 13.0
(275) mm, light fat, crop empty

25 June, Umiat, Alaska

No	Sex	Species	Trap Line	TL/T	wt	testis UH	V plug ep ±	Bridge gap	Emb	scars	Lact
276	♂SA	Dic	5-2.4	120	39.0	7.5	+				
277	♂Ad	Cle	8-9.0	140-31	24.4	13.0	+				
278	♂SA	Cle	8-1.6	118-23	17.4	9.0	+				
279	♀Ad	Lem	6-9.2	138	50.5	5.0	-	gap	0	7(2/5) large	+
280	♀Ad	Mm	6-0.8	139-18	30.7	2.0	-	gap	0	9(5/4)	+
281	♀Ad	Mo	6-2.8	173-37	53.5	2.5	-	gap	0	8(4/4)	+
282	♂Ad	Mo	6-4.0	180-34	63.0	9.5	+				
283	♂Ad	Mo	6-3.0	185-38	64.1	9.0	+				
284	♂Ad	Lem	6-6.6	145	63.4	10.0	+				
285	♂Ad	Mo	6-2.8	175-35	63.7	8.5	+				

T. Cade
1957

Specimen Register

25 June, cont

No	Sex	Species	Trap Line	TL/T	wt	testis UH	Vplug ep ±	Bridge gap	Emb	Scars	Lact
286	♂ Juv	Mo	6-7.4	125-24	24.1	6.0	+				
287	♀ Ad	Mo	6-4.4	165-34	48.2	2.0	–	gap	0	8(4/4)	+
288	♂ Ad	Sorex tundrensis	6-8.0	105-30	9.6	5.0	?				
27 June, Umiat, Alaska											
289	♂ Ad	Lem	6-9.2	146	66.0	12.0	+				
290	♂ Ad	Mo	6-4.2	171-35	69.3	8.5	+				
291	♂ Ad	Sorex tundrensis		103-31	8.5						
25 June, Umiat, Alaska											
292	♀ Ad, <u>Mareca</u> <u>americana</u>, on a pond near T8. Largest follicle 6 mm - oviduct ca 2 mm. Moderate fat. wt = 651.5 gm.										
27 June											
293	♀ Ad	Mo	6-4.4	155-33	41.5	2.0	–	gap	8(5/3) 10 mm	0	–
294	♀ Ad	Sorex tundrensis	6-4.8	110-32	13.8	>1.0	–	gap	0	15(8/7)	+
295	♀ Ad	Dic	5-9.0	146	68.5	–	–	gap	7(5/2) 15 mm	0	0
28 June, Umiat											
296	♂ Ad	Sorex tundrensis	6-4.4	102-28	8.5	6.0	+				
29 June, Umiat											
297	♂ Ad	Mm	10-1.0	150-23	49.1	12.0	+				
298	♀ SA+	Mm	10-4.0	142-22	38.3	2.0	–	gap	10(5/5) 5 mm	0	+
299	♀ Ad	Mm	10-4.8	150-24	45.4	–	–	gap	7(3/4) 15 mm	0	+
30 June, Umiat											
300	♀ Ad	Lem	2-0.6	140	53.7	3.0	+?	gap	0	7(5/2)	+
301	♂ SA	Lem	2-9.8	119	32.7	8.0	+				
302	♂ Ad	Mm	10-2.4	156-28	52.0	12.0	+				
303	♂ Ad	Mm	10-4.6	156-25	51.0	12.0	+				
304	♂ Ad	Mm	10-0.8	148-23	45.9	12.0	+				

Code
1957

Specimen Register

No	Sex	Species	Trap Line	TL/T	wt	testis UH	V plug ep±	Bridge Gap	Emb	Scars	Lact
30 June, Umiat											
305	♀ Ad	Mm	10-6,0	145-21	42,2	2,0	–	gap	10(6/4) 6 mm	0	+
306	♀ Ad	Mm	10-1,2	154-24	56,0	2,5	—	gap	11(4/7) 6 mm	0	+
1 July, Umiat											
307	♀ Ad	Mm	10-0,4	165-26	58.7	—	—	gap	10(7/3) 18 mm	0	—
308	♂ Ad	Mm	10-0,6	165-26	59,4	12,0	+				
309	♂ Ad	Mm	10-2,6	166-25	50,0	13,0	+				
310	♂ Juv	Mm	10-5,8	100-15	10,5	5,5	—				
311	♀ Ad	Mm	10-8,8	150-21	52,5	2,0	—	gap	12(6/6) 6 mm - 1 resb	0	+
2 July, Umiat											
312	♂ SA	Dic	2-9,8	120	35,0	7,0	—				
313	♂ Ad	Mo	—	175-37	52,0	9,0	+?	Caught in live trap - died in capti - Skin chewed - not saved			
314	♂ SA	Sorex tundrensis	2-6,8	82-22	3,5	4,4	+?				
315	♀ Ad	Mm	taken by T10	149-19	45,6	4,0	—	gap	9(4/5) 12 mm	0	+
316	♀ Ad	Mm	"	156-25	48,5	3,0	—	gap	11(7/4) 8 mm	0	+
4 July, Umiat - near "Old Umiat"											
+ skull 317	♀ Ad	Mo	dead in live trap	171-38	44,1	2,0	—	gap	0	11(3/8) old	+
18 June Wainwright, Alaska -											
318	♀ Ad	Lem	4-4,6	149	59,7	2.5	+	gap	0	?	—
319	♂ Ad	}	4-4,6	142	55,2	13,0	+				
320	♂ Ad	}	1-4,0	130	45,7	9,5	+				
321	♂ Ad	}	2-1,2	135	48,0	10,0	+				
322	♀ Ad	}	1-8,6	165	73,5	2.5	—	gap	9(4/5) 7 mm	0	—
323	♂ Ad	}	3-9,6	145	60,0	10,0	+				
324	♂ SA+	}	2-7,8	132	42,2	10,0	+				
325	♂ SA+	}	2-3,0	130	41,1	10,5	+				

T. Code
1957

Specimen Register L

14 June Wainwright

Note	No	Sex	Species	Trap Line	TL/T	wt	testis UH	Vplug epl	Bridge Gap	Emb	Scars	Lact
	326	♀ Ad	Lem	4-7.0	153	63.0	2.0	–	gap	0	3(1/2)	–
	327	♀ Ad		3-6.4	155	61.0	2.0	–	gap	8 9(4/5) mm 1 resb	0	–
	328	♂ Ad		2-3.4 ~~2-3.4~~	145	49.5	10.0	+				
	329	♀ Ad		3-6.4	155	69.3	2.0	–	gap	5(1/4) 4mm	0	—
	330	♂ Ad		4-4.8	140	47.6	10.0	+				
	331	♂ Ad		4-6.6	164	84.2	12.0	+				
	332	♂ SA +		1-8.8	140	48.5	11.0	+				
	333	♀ SA +		4-5.2	136	49.8	1.5	–	gap	7(3/4) 4mm	0	–

20 ~~June~~ ~~23~~ July, Barrow, Alaska - Eskimo caught

Note	No	Sex	Species	Trap Line	TL/T	wt	testis UH	Vplug epl	Bridge Gap	Emb	Scars	Lact
	334	♂ SA	Lem	—	134	32.7	10.0	+	chewed up in cage - pelt not saved.			
	335	♀ SA		–	1~~1~~0	28.0	1.5	–	?	0	0	–
	336	♂ SA		–	121	33.3	10.0	+				
	337	♀ SA		–	130	39.0	1.0	–	gap	8(6/2) 3mm	0	–
not saved	338	♀ Ad		–	145	63.9	3.0	–	gap	11(5/6) 9mm	0	–
" "	339	♀ ~~Ad~~ SA		—	125	39.8	1.5	–	bridge	6(2/4) 4mm	0	–
" "	340	♀ Ad		–	144	54.1	2.0	–	gap	8(6/2) 8mm	0	–
" "	341	♀ Ad		–	140	60.0	–	–	gap	9(7/2) 20mm	0	–
	342	♂ Ad –		–	139	50.0	11.0	+				
	343	♂ Ad		–	145	70.5	9.0	+				
not saved	344	♀ SA		–	121	33.8	1.5	0	gap	9(3/6) 3mm	0	–
" "	345	♂ Ad		–	153	75.5	13.0	+				
" "	346	♀ Ad		–	139	46.0	1.0	0	gap	8(6/2) 3mm	0	–
" "	347	♂ Ad		–	132	43.9	10.0	+				
	348	♀ SA –		–	126	38.0	1.0	0	gap	5(1/4) 3mm	0	–

349 ♀ Ad Totanus flavipeps, Barrow, at ARL. wt = 66.5, moderate fat, foll, all less than 1mm,

. Code
1957

Specimen Register

6 June Wainwright

	No	Sex	Species	Trap Line	TL/T	wt	testis UH	V plus ept	Bridge gap	Emb	Scars	Lact
	350	♂Ad	Lem	—	159	71.6	11.0	+				
ot saved	351	♂Ad		—	151	61.5	11.0	+				
	352	♀SA		—	120	28.5	1.0	—	?	0	0	—
	353	♂Ad		—	155	63.5	11.0	+				
t saved	354	♀SA		—	125	29.1	1.0	—	bridge	0	0	—
"	355	♀Ad		—	135	39.3	1.0	—	bridge	0	0	—
	356	♂Ad		—	130	44.5	11.0	+				
"	357	♂Ad		—	131	44.5	10.0	+				
"	358	♀Ad		—	145	47.3	1.5	—	gap	0	0	—
	359	♂Ad		—	130	30.7	8.5	+				
* *	360	♂Ad		—	175	83.3	11.0	+				
" "	361	♀SA		—	127	33.5	1.5	—	Br	0	0	—
	362	♂SA		—	117	28.3	9.0	+				
	363	♂SA		—	110	23.3	6.0	—				
	364	♂SA		—	116	27.2	8.0	+				
	365	♀SA		—	115	34.0	2.0	—	Br	5(2/3) 2 mm	0	—

7 June Wainwright

	No	Sex	Species	Trap Line	TL/T	wt	testis UH	V plus ept	Bridge gap	Emb	Scars	Lact
not saved	366	♀SA	Lem	—	110	24.1	2.0	—	Br	0	0	—
	367	♀SA		—	108	25.0	milky 2.5	—	gap	0	0	—
s e skulls t saved	368	♀SA		—	136	33.1	1.0	—	gap	0	0	—
	369	♀Ad		—	161	60.9	1.0	—	gap	11(5/6)	0	—
	370	♂Ad		—	160	88.9	13.0	+				
	371	♂Ad		—	155	73.5	12.5	+				
	372	♂Ad		—	153	59.8	10.0	+				
	373	♂Ad		—	140	40.0	10.0	+				
	374	♀SA		—	119	27.6	1.5	—	Br	0	0	—

Cobe
1957

Specimen Register

6 June Wainwright

	No	Sex	Species	Trap Line	TL/T	wt	testis UH	V plug ep I	Bridge Gap	Emb	Scars	Lact
	375	♂SA	Lem	–	130	37.9	10.0	+				
t saved	376	♀Ad	}	–	152	59.5	2.0	–	gap	0	10(5/5)	–
	377	♂Ad	}	–	160	82.0	13.0	+				
" "	378	♀Ad	}	–	134	43.0	1.0	0	Br	0	0	–
	379	♂Ad	}	–	140	49.5	11.0	+				
"	380	♀Ad	}	–	140	30.0	2.5	+	Br?	0	0	–
"	381	♀SA		–	130	37.6	2.0	–	?	0	0	–

7 June Wainwright

	No	Sex	Species	Trap Line	TL/T	wt	testis UH	V plug ep I	Bridge Gap	Emb	Scars	Lact
	382	♀Ad	Lem	–	155	59.5	2.5	–	gap	0	5(3/2)	+
	383	♀Ad	}	–	151	55.5	milky 2.0	–	gap	0	0	–
	384	♂SA	}		120	32.5	8.5	+				
	385	♀SA	}		125	33.3	1.5	–	Br	0	0	–
	386	♀SA	}		125	27.1	<1.0	–	Br	0	0	–
	387	♀SA	}		120	33.3	1.5	–	Br	0	0	–
	388	♂Juv			99	17.5	4.0	–				

(vertical margin note: skins & skulls)

28 July Pitt Point ~~101 19.7~~

	No	Sex	Species	Trap Line	TL/T	wt	testis UH	V plug ep I	Bridge Gap	Emb	Scars	Lact
	389	♂Juv	Lem	2-5.2	101	19.7	3.0	–				
not saved	390	♂Ad	}	1-2.8	140	55.9	9.5	+				
	391	♀Ad	}	1-7.0	150	46.0	3.0	–	gap	0	8(4/4)	–?
	392	♂SA	}	1-9.8	135	58.0	10.0	+				
July	393	♂SA	}	1-0.6	140	54.9	10.0	+				
July	394	♂Juv		2-2.4	102	18.9	3.0	–				

14 June Wainwright

	No	Sex	Species	Trap Line	TL/T	wt	testis UH	V plug ep I	Bridge Gap	Emb	Scars	Lact
	395	♂Ad	Lem	1-2.2	160	80.5	11.0	+				

T. Code
1957

Specimen Register

Jago Lake, Alaska

	No	Sex	Species	Trap Line	TL/T	wt	testis Ut	Vplug ep±	Bridge gap	Emb	Scars	Lact	
ugust	396	♂	Sorex	2-4.0	83-24	3.4	1.0	—					
ugust	397	♂	pluvialis dominica	—	—	150.4							5x1.5, moderate fat, taken on upland tundra near Jago Lake
ug	398	?	Oenanthe oenanthe	—	—	25.7							?, light fat, skull clear, on upland tundra by lake
ug	399	?♀	Anthus spinoletta	—	—	19.0							? light fat, skull clear - on gravel by river
ug	400	♀Ad	Mo	2-3.0	153-35	35.5	2.0	—	gap	0	7(2/5)	+	
ug	401	♂Ad	Acanthis	—	—	13.2							willow brush creek bed, testis 2x1.5, moderate fat.
"	402	♀?Juv	Acanthis	—	—	10.5							willow brush creek bed, ovary 1.0, moderate fat, skull clear
ug	403	♂Juv	Oenanthe oenanthe	—	—	24.2							Gravel stream bed in river bottom, testis 1x0.5, light fat, skull clear
RL ug	404	♂Juv	Passerculus sandwichensis	—	—	18.0							willow brush creek bed, testis 1x0.5, light fat, skull clear
" At ARL	404A	♀Juv	Spizella arborea	—	—	15.5							willow brush creek bed, ovary 1mm, no fat, skull clear
" At ARL	405	♀Juv	Spizella arborea	—	—	14.0							gravel creek bed, ovary <1.0, no fat, skull clear
" At ARL	406	♀Juv	Passerculus sandwichensis	—	—	16.5							willow brush creek bed, ovary 1.0, light fat, skull clear
ug At ARL	407	♀?	Anthus spinoletta	—	—	19.0							over gravel creek - ovary 2x2 light fat, skull clear
"	408	♂	Oenanthe oenanthe	—	—	20.0							over gravel creek bed, testis 1x0.5 light fat, skull clear
ug	409	♂Juv	Lanius borealis	—	—	71.0							by edge of lake on rock, testis 2x1, no fat, skull clear, ~~crop & stomach~~ crop empty, stomach contents: grasshoppers - (lots of live ones around)
"	410	♂ ? ♀ Juv	Falco rusticolus	—	—								wt not taken - light fat, crop and stomach empty, ~~ovary ...~~ gonad dest. by shot, in air over camp
"	411	♂	Lagopus mutus	—	—	498.0							dense willow brush of river bottom. testis 5x3, light fat, willow leaves in crop.
ugust	412	♀SA	Mo	3-5.6	140-38	24.7	4.0 milky	—	gap	5(3/2) 7mm	0	—	
ugust	413	♀SA	Dic	3-9.0	125	30.8	2.0	—	gap	0	0	—	
ug	414	♂SA	Mo tail cut off	3-2.8	121-15	28.5	7.0	+					
August	415	♀Juv	Zonotrichia leucophrys	—	20.5								in willow brush creek bed, ovary 1.0 mm, light fat,
At ARL 12 Aug	416	?Juv	Zonotrichia leucophrys		24.1								in willow brush creek bed, gonad indistinct, light fat.
" "	417	♂Juv	Lanius borealis	—	wt. 48.6	—	1.5x .5						in willow brush, no fat, emaciated stomach & crop empty.
Aug	418	♂	Loxia leucoptera	—	—	22.5							over gravel stream bed, testis 7x7 light fat

Cade
1957

Specimen Register

Jago Lake, Alaska

Date	No.	Sex	Species	Trap Line	TL/T	wt	testis UH	V plug ept	Bridge gap	Emb	Scars	Lact
[A]ugust	419	♂ Juv.	Mo	6-8.6	120-27	17.9	5.0	–				
"	420	♂ Ad	Mo	6-8.8	160-43	39.1	7.5	+				
[A]ugust	421	♂	Calcarius (lapponicus?)	–	–	30.3	1x0.5	rocky slope, moderate to heavy fat, skull clear				
"	422	♀ Juv	Luscinia succicia (sp?)	–	–	15.8	ovary <1.0, light fat, willow brush creek on slope, skull clear					
	423	♀ Ad	sorex	6-9.8	88-27	4.0	<1.0	–	gap	0	?	+

[A]ugust Wainwright, Alaska - Eskimo caught

Note	No.	Sex	Species	Trap Line	TL/T	wt	testis UH	V plug ept	Bridge gap	Emb	Scars	Lact
with	424	♀ SA	Lemmus	–	111	29.0	1	No	BR	0	0	No
up	425	♂ SA			120	27.5	6	[redacted]	[redacted]			
	426	♀ SA			112	38		No	Gap	5(3,2) 5mm	0	No
	427	♀ A			152	71.5	2	No	Gap	0	9(5,4)	+
	428	♀ SA			115	31.3		No	Gap	7(4,3) 10mm	0	No
	429	♀ A			147	79.1		No	Gap	7(4,3) 12mm	1 Emb is resb (0)	+ [redacted]
	430	♀ A			141	67.9		No	Gap	7(2,5) 15mm	0	+
	431	♀ A			157	89.7		No	Gap	9(4,5) 10mm	0	+
not saved	432	♀ A			150	63.5	1	No	Gap	0	14(7,7)	+
	433	♀ A			152	69.6	5	No	Gap	0	9(4,5)	+
	434	♂ SA			106	25.3	5.5	–				
	435	♂ SA			103	20.0	3.0	–				
	436	♂ SA			110	23.6	3.5	–				
	437	♀ SA			110	25.8	2	No	Gap	6(4,2) 4mm	0	No
	438	♀ SA			110	21.2	1.5	No	? (crushed)	0	0	No
	439	♂ SA			110	23.9	3	–				
	440	♂ SA			115	31.1	9.0	No				
	441	♂ A			155	79.6	12.0	+				
	442	♀ A			148	70.0	2	No	Gap	7(3,4) 8mm)	0	No
	443	♀ SA			120	35.4	3	No	Gap	0	5(2,3)	+

T. Code
1957

Specimen Register

recorded by
Ingrith Deyrup

1 August Wainwright, Alaska — Eskimo caught

[redacted]	Sex	Species	Trap Line	TL/T	Wt	Testis UH	V plug ep±	Bridge Gap	Emb	Scars	Lact
444	♂ SA	Lemmus	[redacted]	109 [redacted]	23.7 [redacted]	3.0 [redacted]	—				
445	♂ A	"	—	163	79.3	8	?* (crushed)				
446	♀ Juv [redacted]	"	—	95	14.3	1	—	Gap	0	0	No
447	♂ SA	"	—	120	30.5	2.5	—				

2 August

[redacted]	Sex	Species	Trap Line	TL/T	Wt	Testis UH	V plug ep±	Bridge Gap	Emb	Scars	Lact
448	♂ SA	"	—	118	29.2	3.0	—				
449	♀ A	"	-	133	40.5		—	Gap	10(7,3) 4mm	0	No
450	♀ SA	"	—	98	15.5	<1	—	BR	0	0	No
451	♀ A	"	—	130	40.0	2	—	Gap	6(2,4) 3mm	indistinct 4	Yes
452	♂ SA	"	—	110	23.7	? ←	? (crushed)				
453	♀ SA	"	—	120	42.1		—	Gap	5(3,2) (20mm	0	yes
454	♀ SA	"	—	122	43.5		—	Gap	3(2,1) 24mm	0	yes
455	♂ SA	"	-	110	24.8	2.5	—				
456	♀ A	"	-	148	93.2		-	Gap	9 (uterus torn) 25mm	0	yes
457	♀ A	"	—	134	45.2	5	-	Gap	0	6(4,2)	yes
458	♂ Juv	"	—	95	13.5	3	—				
459	♂ A	"	—	140 No tail	74.8	10	+				
460	♀ Juv	"	—	100	15.9	<1	—	BR	0	0	No
461	♂ SA	"	—	106	23.9	2.5	—				
462	♀ SA	"	—	100	15.9	<1	—	BR	0	0	No
463	♀ SA	"	—	100	16.0	<1	-	BR	0	0	No
464	♀ SA	"	—	96	15.2	<1	-	BR	0	0	No
465	♂ SA	"	-	113	25	6	—				
466	♂ SA	"	-	100	15.3	4	—				
467	♀ SA	"	-	99	15.0	<1	-	BR	0	0	No

pelts and skulls not saved

T. Cole

Specimen Register

Recorded by EMB

August Wainwright, Alaska

Pelts and skulls not saved

~~468~~	No	Species	Trap Line	TL	wt	testis ut	Vplug ept	Br Cup	Emb	Scars	Lact
468	♀ ad	Lemmus		145	90.4	—	No	Ridge	3/5 25mm	0	No
469	♀ sub			110	36.8	2.5	No	G	[illegible]	2/3	Yes
470	♀ ad			145	82.7	2.5	No	G	0	4/3	Yes
471	♂ sub			115	29.3	3	—				
472	♀ sub			126	51.6	2	No	G	0	3/3	Yes
473	♂ sub			109	24.4	7	—				
474	♀ ad			130	62.4	5	No	G	3/2 26mm	0	Yes
475	♂ ad			145	75.5	11.5	+				
476	♀ S			89	16.3	<1	No	B	0	0	No
477	♀ S			105	27.1	1	No	G	0	Indist	No
478	♂ S			86	15.2	2.5	—				
479	♂ S			108	28.3	2.5	—				
480	♀ A			126	71.4	4	No	G	3/2 28mm	0	Yes
481	♂ S			115	26.7	6	—				
482	♀ S			105	26.0	1	No	B	0	0	No
483	♀ A			135	61.5	1.5	No	G	2/3 4mm	indist	Yes
484	♀ S			100	22.7	1	No	G?	0	0	No
485	♀ S			85	11.5	<1	No	G?	0	0	No
486	♂ S			105	28.9	6	—				
487	♂ S			115	27.4	2	—				
488	♀ S			117	43.8	2.5	No	G	0	4/1	Yes
489	♀ S			110	24.6	1	No	B	0	0	No
490	♂ S?			85	11.6	3	—				
491	♂ A			136	74.0	10	+				
492	♂ S			89	17.3	3					
493	♂ A			135	71.0	11	+				

T. Cade
1957

Specimen Register

recorded by
Al Brock

Aug 2, Warner Sl

pelts and skulls not saved

No.	Sex/Age	site TL	wt	tes uH	Bly				
494	♀ S	106	28.6	2?	No	G	2/6 7mm	0	No
495	♀ S	113	37.9	3	No	G	0	4/2	Yes
496	♀ S	108	30.8	2	No	G	0	Indist	Yes
497	♂ S	95	17.5	3	—				
498	♀ S	103	21.9	1	No	G	0	2/1	Yes
499	♀ S	87	14.5	<1	No	B	0	0	No
500	♀ A	140	56.5	1	No	G	0	3/5	Yes
501	♂ S	100	22.1	2	—				
502	♀? S	110	27.8						
503	♂ S	87	17.1	4	—				
504	♀ S	90	12.5	1	No	B	0	0	No
505	♂ S	113	30.0	9	—?				
506	♀ J?	90	12.9	1	No	B	0	0	No
507	♂ S	109	22.9	2.5	—				
508	♀ A	125	38.4	3		G	0	2/6	Yes
509	♀ A	131	60.8	1		G	0	6/7	Yes
510	♀ A	117	42.5	2		G	2/4 10mm	1 Resorb	No
511	♂ A	145	64.9	10.5	+				
512	♀ J?	95	15.4	<1	No	B	0	0	No
513	♂ J?	87	11.7	3	—				
514	♂ J?	83	10.5	3	—				
516	♂ J?	82	10.2	2.5	—				
517	♂ S	94	13.7	3	—				
518	♂ S	108	24.0	5	?				
519	♂ A	156	76.2	12	+				
520	♂ S	110	24.5	2	—				
521	♂ A	142	66.6	10	+				

T. Cade
1957

Specimen Register
recorded by EMB

Aug Wainwright

Pelts and skulls not saved

No.	Sex/Age		TL	wt	Testes wt	Vag. perf.[?]	Breeding G or B	Emb.	Scars	Lact
521	♀ A	Lem	135	65.9	3 or 4	No	G	3/3 18mm	0	Yes
522	♂ S	"	108	26.9	2	—				
523	♂ S	"	75	13.5	2	—				
524	♂ S	"	80	11.0	2.5	—				
525	♀ S	"	105	23.7	<1	No	B	0	0	No
526	♂ S	"	110	32.5	8.5	—				
527	♀ J?	"	82	10.4	1	No	B	0	0	No
528	♂ J	"	72	8.7	3	—				
529	♀ S	"	88	13.3	1	No	B	0	0	No
530	♂ J	"	72	8.2	3	—				
531	♂ S	"	90	15.4	3	—				
532	♂ J	"	84	10.0	2.5	—				
533	♀ S	"	90	14.2	1	No	B	0	0	No
534	♀ A	"	132	48.7	2	No	G	3/3 4mm	0	No
535	♀ S	"	92	18.0	1	No	B	0	0	No
536	♀ S	"	95	14.2	1	No	B	0	0	No
537	♂ S	"	120	77.4(?)	9.50	+				
538	♂ S	"	92	15.9	3.5	—				
539	♂ J	"	84	10.3	3	—				
540	♀ S	"	110	31.3	3	No	G	3/1 12m	0	No
541	♀ A	"	110	54.5	5		G	5/1 28	0	Yes
542	♂ S	"	92	20.0	2	—				
543	♂ S	"	89	13.7	3	—				
544	♂ S	"	105	24.5	2	—				
545	♀ S	"	100	19.0	<1	No	B	0	0	No
546	♀ S	"	85	12.3	<1	No ~~No~~	B ~~B~~	0 ~~0~~	0 ~~0~~	No ~~No~~
547	♀ S	"	110	32.7	2		G	2/2 11mm	0	No

J. Code
1957

Specimen Register

recorded by
EMB

Aug Wainwright

Pelts and skulls not saved

No.		Total L	wt	wt Testis	v-pl ept.	Br Gap	Emb	Scars	Lact
548	♂ J Lemmus	78	10.0	2	—				
549	♂ S	108	25.5	2	—				
550	♀ A	110	43.0	1		G	0	indist	Yes
551	♂? S	110	32.4						
552	♂ A	135	76.1	12	+				
553	♀ S	100	24.3	1	No	B	0	0	No
554	♀ A	135	70.8	2	No	G	5/2 10mm	0	Yes
555	♀ J	70	7.6	<1	No	B	0	0	No
556	♀ S	111	38.1	5	No	G	0	4/2	Yes
557	♀ S	100	22.7	1	No	B	0	0	No
558	♀ A	127	63.6	2	No	G	0	6/4	Yes
559	♂ S	84	12.7	2.5	—				
560	♂ S	87	16.5	3	—				
561	♀ A	119	48.1	3	No	G	2/4 18mm	0	Yes
562	♀ S	85	13.8	1	No	B	0	0	No
563	♂ S	110	25.2	2	—				
564	♂ S	105	24.0	2	—				
565	♂ A	135	74.0	9	+				
566	♀ S	95	21.0	1.5	No	B	0	0	No
567	♀ S	120	41.4	2	No	G	2/3 3mm	0	Yes
568	♀ S	120	38.9	2	No.	G	0	2/3	Yes
569	♀ A	142	67.4	?	?	?	?	?	Yes
570	♂ S	95	18.3	2	—				
571	♂ S	109	24.5	2	—				
572	♀ S	111	30.3	1	No	B	0	0	No
573	♀ S	100	20.0	1	No	B	0	0	No
574	♂ S	112	27.5	7	—				

T. Code
1957

Specimen Register

recorded by EMB

2 August Wainwright, Alaska

Pelts and skulls not saved

No.	Sex	Species	Trap	Total L	wt	UH Testis	Uplus ep±	Br Bar	Emb	Scars	Lact
575	♀A	Lem		142	75.6	2	No	G	5/3 7mm	0	Yes
576	♀S			82	13.2	1	No	B	0	0	No
577	♂S			96	20.0	2	—				
578	♀A			137	73.0	2	No	G	3/1 15mm	0	Yes
579	♀S			115	40.2	2	No	G	0	2/1	yes
580	♂S			106	26.8	1.5	-				
581	♂A			152	69.0	12	+				
582	♂S			107	20.6	4	—				
583	♀A			142	59.7	3	No	G	2/3 14mm	0	Yes
584	♀A			132	69.5	3	No	Broken	4/5 10mm	0	No
585	♀S			108	34.7	3	No	Bridge	3/2 10mm	0	No
586	♂S			92	15.8	4	—				
587	♀S			112	24.7	1	No	Bridge	0	0	No
588	♀S			102	28.8	1	No	B	0	0	No
589	♀S			110	24.4	1	No	B	0	0	No
590	♂A			155	87.7	11	+				
591	♀S			105	24.5	1	No	B	0	0	No
592	♂S			101	22.5	3	—				
593	♂S			105	22.5	4	—				
594	♀S			102	25.6	1	No	G?	0	0	No
595	♀S			110	30.2	1	No	B	0	0	No
596	♂A			141	83.3	12	+				
597	♀A			149	61.0	2	No	G	0	7/7?	Yes
598	♀A			145	56.6	3	No	G	0	3/7	No
599	♀S			115	30.2	1	No	B	0	0	No
600	♀A			130	56.[illegible]	3	No	G	0	4/6?	Yes

T. Cole
1957

Specimen Register

No.		Species		TL	wt	uH testis	V plug ept	Br Cap	Emb	Scars	Lact
2 Aug Wainwright											
601	♀ S	Lem		105	20.4	/	No	B	0	0	No
602	♀ S			100	23.3	/	No	B	0	0	No
603	♀ S			95	17.5	/	No	B	0	0	No
604	♂ S			112	24.1	4	—				
Aug 1 Wainwright											
605	♂ S			90	18.2	5	—				
606	♀ S			130	60.5	7.0	No	G	1/4 34.0	0	Yes
607	♀ S			102	20.8	2.0	No	B	0	0	No
608	♂ S			110	28.2	5.0	—				
609	♀ S			119	45.1	3.0	No	G	3/7 8mm	0	No
610	♀ S			120	43.0	3.0	No	G	2/3 1.5mm 1xesb	0	No
611	♀ S			119	36.2	2.0	No	G	0	3/2	No
612	♀ A			145	79.1	5.0	No	G	4/3 16mm	0	No
613	♀ S			128	60.5	7.0	No	G	3/3 28mm	0	Yes
614	♂ S			91	14.7	4.0	—				
615	♀ A			145	74.9	3.0	No	G	2/7 6mm	indist.	Yes
616	♀ A			145	100.8	8.0	No	G	5/3 25mm	0	Yes
617	♂ S			96	18.0	6.0	—				
618	♀ A			140	68.0	3.0	No	G	2/5 7mm	0	Yes
619	♂ A			145	61.5	11.0	+?		~~4/2 12mm~~		
620	♀ S			120	48.5	8.0	No	G	4/2 17mm	0	Yes
621	♀ S			95	17.7	1.0	No	B	0	0	Yes
622	♀ A			132	23.6	?	No	G	4/2 11mm	0	Yes
623	♀ S			90	16.9	Milky 3.5	No	G?	0	0	No
624	♂ J			85	15.0	5.0	—				

T. Cade

1958

Specimen Register

26 June Coal Mine, Meade River, Alaska

✓ #1 skel Eremetes pusillus, Ad ♂, wt = 24.1 gm. left testis = 3.5 mm. medium fat. (Skeleton)

✓ #2 skel Eremetes pusillus, Ad ♀, wt = 26.7 gm. largest fol. = 1.5 mm. oviduct = 1.0. medium fat. (Skeleton)

✓ #3 skel Erolia melanotos, Ad ♀, wt = 65.4, largest follicle = 3.0, oviduct = 4.0. Heavy fat. (Skeleton)

exch #4 skel Calcarius lapponicus Ad ♂, wt = 25.4, testis = ~~3.0~~ 4 x 2.5 mm. light fat (Skeleton)

exch #5 skel Calcarius lapponicus, Ad ♂, wt = 23.0, left testis = ~~4~~ 3.0 x 2.5 mm. light fat (Skeleton)

exch #6 skel Calcarius lapponicus, Ad ♀, wt = 20.8, largest follicle = 2.0. Oviduct 1.0. No fat. (Skeleton)

exch #7 skel Phalaropus fulicarius, Ad ♂, wt = 43.9 gm. left testis = 6x3 mm, light fat - brood patches ca. size of half dollar. crop contained numerous small snails, few crane flies and mosquitos. (Skeleton)

July, Umiat

	♂/♀ Sp	T.L / T	wt	testis Gap/Br	UH ep ±	V plug	Emb	Scars	Lact	Trap site	evidence of fighting
# 8 Ad	♂ Dic	135	76.0	8.0	+		~~12(3/4)~~	0	~~[illegible]~~	3-1.0	none
# 9 Ad	♀ Mo	162 / 35	66.0	Gap	4	0	12(3/4)	0	fat present	1-2.8	" "
# 10 Juv	♀ Mo	111.0 / 23.0	17.0	Gap ?	1.5	?	2.5(1/2)	0	0	1-2.8	none
#11 Ad ♂	Mo	175 / 38	46.0	8.0	+					1-2.6	scar on skin of shoulder
#12 SA ♂	Lem	129	37.0	8.0	+					3-7.0	none
11 July, Umiat, Alaska										~~3-7.2~~	~~none~~
#13 Ad ♀	Lem	144	48	gap	2.0	0	—	8/6	+	3-7.2	skull not saved
#14 Juv ~~♀~~ ♂	Lem	85	17.0	5.0	—					5-7.6	none
#15 Juv ♂	Mo	113-25	20.0	5.5	—					5-1.6	none
#16 Juv ♀	Mo	113-26	19.0	Br	milky 1.5	bloody vagina	0	0	0	1-2.8	none

Cade
1958

Specimen Register

♂ ♀ Sp	Trap site	T.L. / T.	wt.	Testis Gap/Br	UH ep I	V plug	Emb	Scars	Lact	evidence of fighting

July, Umiat - ♂ #17 *Dendroica striata*, wt = 13.0 gm. testis = 1.5, light fat. shot in willow-alder brush-creek-foothills

July, Umiat Alaska

#18 SA ♂ Dic	3-2,8	114	33.0	7.0	+					none
#19 Juv ♀ Mo	5-3,6	126-27	23.0	gap	2.0	—	3(3/5)	—	—	none

#20 Juv ♂ *Lagopus (mutus?)*, on ridge back of red bill, caught on T 3-3,4, wt = 65 gm. testis 1.0 crop contained 75% green cranberries & cranberry flowers, about 15% green caterpillars, trace of adult diptera & misc.

10 July, Umiat, Alaska

cat. skel #21 Ad ? *Pluvialis dominica*, upland tundra near T3 on soil blister ground, wt = 145, (wing = 181 mm ♀?) (Skeleton) light fat

cat. (skeleton) #22 Ad ? skel *Luscinia svecica*, alder-willow brush creek in foothills, wt = 18.5, gonads destroyed, light fat

✓ #23 Ad ♀ skel *Luscinia svecica*, same habitat as #22, wt = 16.4, largest fol - <1.0, no fat, (Skeleton)

✓ #24 Ad ♀ skel *Luscinia svecica*, same habitat as #22, wt = 19.0 largest foll <1.0, no fat (Skeleton)

11 July, Umiat, Alaska

✓ #25 Ad ♀? skel *Anthus spinoletta*, ridge in uplands - caught on T3., wt = 22 gm, ovary indistinct - ca 2 mm, light fat (skeleton)

✓ #26 Ad ♂ skel *Lanius borealis*, willow brush of 2nd terrace. wt = 66 gm. testis = 3.0, no fat (Skeleton)

T. Cade
1958

Specimen Register

[illegible] July, Umiat

#	Sp	Trap site	T.L / T.	wt.	Testis Gap/Br	UH ep±	V plug	Emb	Scars	Lact	evidence of fighting
~~#27, Ad~~											
#27, Ad ♂	Mo	8-7.8	180-40	55.0	9.0	+					none
28 Juv ♂	Sorex	8-4.8	85-30	8.0	?1.0	−					none
29 Juv ♀	Mm	10-9.8	105-16	15.0	Br	2.0 milky	0	~~[illegible]~~ 0	0 vagina bloody	0	none
30 Juv ♀	Mm	10-2.8	110-19	22.0	gap	3.0	0	5(4/2) 1R resb	0	0	none
31 Juv ♀	Mm	10-3.8	117-20	26.0	gap	3.0	0	8(1/5)	0	0	(skull damaged) none
32 Juv ♀	Lem	caught on 1st terrace	85	18.0	Br?	2.0	0	3(1/2)	0	0	none

33 Ad ♂ *Totanus flavipes*, by gravel pit along runway, wt = 84 gm., light fat. Testis = 2.0

#34 downy sex? *Gavia arctica*, on lake on 2nd terrace of river, wt = 72 gms. light fat.

#35 downy sex? *Gavia arctica*, same locality as above - sibling wt = 61 gm. light fat

5 July Umiat, Alaska

#	Sp	Trap site	T.L / T.	wt.	Testis Gap/Br	UH ep±	V plug	Emb	Scars	Lact	evidence of fighting
#36 Ad ♀	Cle	~~10~~-0.0	135-28	36.0	gap	2.0	0	3.5(3/5)	0	+	none
#37 Ad ♂	Mm	10-4.0	147-25	47.0	11.0	+					
#38 Juv ♂	Mm	10-3.2	125-21	25.5	8.0	+					

[illegible] July, Umiat, Alaska

#	Sp	Trap site	T.L / T.	wt.	Testis Gap/Br	UH ep±	V plug	Emb	Scars	Lact	evidence of fighting
#39 Ad ♂	Sorex	8-7.6	100-30	10.0	6.0	+					none (skull damaged)
#40 SA ♂	Cle	8-0.4	115-13	20.0	9.0	+					
#41 Ad ♀	Lem	2-2.2	140	50.0	gap	2.0	0	7(6/1) 2 R resb	0	+	none
#42 SA ♂	Lem	2-9.2	111 ~~120~~	30.0	8.0	+					~~tail missing~~ none
#43 Juv ♂	Mm	10-0.8	122-20	26.5	8.0	+					
#44 Ad ♂	Mm	10-9.0	120	42.0	10.0	+					tail missing

17 July, Umiat, Alaska

#	Sp	Trap site	T.L / T.	wt.	Testis Gap/Br	UH ep±	V plug	Emb	Scars	Lact	evidence of fighting
#45 SA ~~Ad~~ ♂	Mo	8-9.2	140-30	30.0	7.0	+					skull crushed
#46 Ad ♀	Sorex	8-4.2	90-28	7.5	gap	1.0	~~3(4/4)~~ 0	3(4/4)	0	0	skull crushed

Code
1958

Specimen Register

7 July, Umiat

	Sp	trap site	T.L. / T.	wt	Testis Gap/Bx	UH ep ±	V plug	Emb	Scars	Lact	evidence of fighting
#47 Ad ♀	Mm	9-3.4	150-23	44.0	gap	3.0	0	13(5/4)	0	0	none

July Umiat

	Sp	trap site	T.L. / T.	wt	Testis Gap/Bx	UH ep ±	V plug	Emb	Scars	Lact	evidence of fighting
#48 Ad ♂	Sorex	6-4.4	103-26	10.5	6.0	+					
#49 Ad ♂	Mo	4-3.8	161-34	46.0	7.5	+					
#50 Ad ♂	Mo	4-0.8	150-32	35.0	7.0	+?					

July, Umiat, Alaska

	Sp	trap site	T.L. / T.	wt	Testis Gap/Bx	UH ep ±	V plug	Emb	Scars	Lact	evidence of fighting
51 Ad ♀	Lem	4-7.0	140	74.0	gap	2.0	0	4(6/5)	0	+	none
52 SA ♂	Lem	4-7.4	112	28.0	7.0	+					
53 Juv ♂	Mo	6-9.2	120-27	20.0	4.5	—					

#54 Ad ♂ *Phylloscopus borealis*, in tall willows at mouth of Seabee Creek. wt = 11.0, testis 3x2, light fat - heavy molt of back feathers. (Skeleton)
skel

July, Umiat, Alaska

55 Ad ♀ *Phylloscopus borealis*, same habitat as above, wt = 9.5, largest follicle < 1.0, no fat, no molt. (skeleton)

	Sp	trap site	T.L. / T.	wt	Testis	UH ep ±
56 SA ♂	Mo	6-0.4	118-25	20.0	7.0	-?

July, Colville River - at mouth of Oolamnagavik

57 Ad ♂ *Falco peregrinus* - shot at nest-cliff, wt = 575, very light fat. testis damaged by shot - ca. 5 mm. - stomach & crop empty. nematodes in viscera; brood patches indistinctly present

July, Colville River, below mouth of Killik R.

58 Ad ♂ *Vulpes fulva* - shot on gravel bar by edge of river. (Skull and baculum)

July Colville River, ca 15 mi above Umiat

#59 Ad ♀ *Falco peregrinus*, shot at nest-cliff. wt = 973 gm, light fat - stomach & crop empty. - nematodes in viscera; brood patches ca 40 mm dia - new feathers growing in them

July - Colville River, ca 20 mi. above Umiat

#60 Ad ♂ *Falco peregrinus*, shot at nest cliff, wt = 619 gm - 20 in crop = 600 gm

T. Cade
1958

Specimen Register

#60 cont – light fat. Brood patches distinct - 40 mm dia - pin feathers growing in them. testis 5x5 mm. Heavy infestation of nematodes. Crop contained remains of small passerine & few of Microtus sp.

[illegible] July Colville River, ca 1 mi below mouth Oolamnagavik

#61 Ad ♂ Falco peregrinus, shot at nest-cliff, wt = 620, light fat. testis = 5x3. Nematodes in mesenteries. Crop & stomach empty but holding juv. longspur in foot when shot. brood patches 50 mm - pin feathers just beginning to grow in.

August, Okpilak Lake, Alaska - ca 3 mi S. of.

#62 Ad ♂ ✓[illegible] Lagopus mutus, willow stream bed on side of valley, wt = 424 gm. light fat, testis = 3x2 mm. Crop had willow leaves in it. (Skeleton)

#63 Ad ♀ skel Lagopus mutus, same habitat as above, wt = 340 gm, no fat. gonads destroyed - had a half grown chick. Crop had Dryas & willow leaves in (Skeleton)

#64 Ad ♂ Sayornis saya, feltleaf willows in river bottom, wt = 25.0 gm. light fat. testis = 1.0 x 0.5

#65 Ad (?) Calcarius pictus, on dwarf shrub-heath-moss complex at lower part of alluvial fan, wt = 28.3 gm medium fat. gonad destroyed by shot.

#66 Ad Calcarius pictus, same habitat, wt = ?
(Skeleton)

#67 Ad ♂ ✓skel Acanthis (flammea?), dwarf willow-birch shrub of drainage bank, ~~[illegible]~~ testis = 2x2
(Skeleton)

T. Code
1958

Specimen Register

4 August Okpilak Lake, Alaska

No.	Sp	trap site	TL / T	wt	testis Gap/Br	UH ep ±	V plug	Emb	Scars	Lact	no skin / remarks
#68 SA ♀	Mo	near T2- by hand	134-28	19.2	Gap	2.0	0	0	4(2/2)	0	evidence of fighting tooth marks in skin
#69 Ad ♀	Mo	1-8.0	140-34	42.0	gap	1.0	0	0	9(5/4)	+	bite marks in skin
70 Ad ♀	Mo	1-4.0	150-32	31.8	gap	2.0	0	5(4/1) 2 mm	6(3/3)	+	" "
ll crushed 71 Ad ♂	Mo	1-6.4	160-33	38.5	7.5	+					
72 Ad ♂	Mo	2-8.2	165-34	47.8	7.0	+					
73 SA ♀	Mo	2-10.0	138-30	26.8	gap	1.0	0	0	6(6/0)	+	
74 SA ♂	Lem	2-9.0	100	19.5	2.5	−					
75 Ad ♀	Lem	2-9.6	124	32.0	gap	2.0	0	0	6(2/4)	+	
76 ~~Ad~~ ♀	Lem	2-5.0	112	30.5							

5 August, Okpilak Lake

No.	Sp	trap site	TL / T	wt	testis Gap/Br	UH ep ±	V plug	Emb	Scars	Lact	no skin / remarks
77 Juv ♀	Mm	3-4.6	115-18	18.6	Br	<1.0	0	0	0	0	
78 Ad ♂	Mo	1-6.0	137-23	36.8	8.0	+					
skull crushed 79 Juv ♀	Mo	1-0.8	112-25	17.5	Br	<1.0	0	0	0	0	
80 Ad ♀	Mo	1-4.2	149-33	34.5	gap	3.0	0	4(4/0) 7 mm	0	+	−
back eaten away 81. Ad ♀	Mm	3-1.6	150-22	33.5	gap	2.0	0	0	6(3/3)	+	no skin saved
82 SA ♂	Mm	3-9.6	126-20	23.6	2.5 (written over another figure)	−					
83 SA ~~♀~~ ♂	Cle	3-10.0	129-26	20.8	3.0	−					
84 Ad ♂	Mm	3-10.0	142-21	39.0	8.0	+					
85 Ad ♀	Mm	3-9.6	140-20	33.0	gap	1.0	0	0	indst.	0	
86 Ad ♀	Mm	3-8.8	145-20	42.0	gap	1.0	0	0	6(3/3)	+	
87 SA ♂	Mm	3-9.8	115-24	20.1	2.0	−					
88 SA ♂	Mm	3-8.4	110-18	20.0	2.0	−					
89 SA ~~♂~~ ♀	Mm	3-7.8	123-17	20.0	Br	<1.0	0	0	0	0	
90 SA ♀	Mm	3-7.6	122-20	20.0	Br	<1.0	0	0	0	0	
91 Ad ♂	~~Mm~~ Cle	3-7.6	145-30	31.0	12.0	+					
92 Juv ♂	Mm	3-8.2	116-21	19.9	2.0	− ~~+~~					

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1958

Specimen Register

5 August cont

	Sp	trap site	TL / T	wt	testis Gap/Br	UH ep ±	V plug	Emb	Scars	Lact
93 SA ♂	Mm?	3-7.0	121-21	20.7	2.0	−				
94 Ad ♀	Mm	3-5.6	145-23	38.7	gap	1.0	0	0	indist	0
95 SA ♂	Mm	3-7.0	125-19	23.2	2.5	−				
96 Ad ♀	Cle	3-4.6	145-30	43.3	gap	3.0	0	7(3/4) 20mm	0	+
97 SA ♂	Lem	3-5.0	110	26.5	7.0	−?				
skull crushed 98 SA ♀	Mm	3-7.4	115-17	17.9	Br	21.0	0	0	0	0
99 Juv ♀	Mm	3-5.6	115-18	15.0	Br	<1.0	0	0	0	0
100 SA ♀	Mm	3-6.6	120-21	20.7	Br	<1.0	0	0	0	0
skull crushed 101 Ad ♀	Mm	3-4.2	145-24	40.0	gap	2.0	0	5(3/2) 3mm	10(6/4)	0
102 Ad ♂	Mm	3-4.4	143-18	37.7	10.0	+				
103 Ad ♂	Mm	3-4.4	146-24	41.6	9.0	+				
104 SA ♂	Cle	3-6.6	130-28	19.0	2.5	−				
105 Ad ♀	Mm	3-0.8	148-27	38.0	gap	1.0	0	6(2/4) 2.5mm	11(5/6)	+
106 Ad ♂	Mm	3-3.4	152-24	42.4	10.0	+				
107 SA ~~♂~~ ♀	Mm	3-3.0	117-16	19.7	? crushed Br	<1.0	0	0	0	0
108 SA ♂	Mm	3-0.6	119-18	21.3	2.5	−				
skull crushed 109 ~~Juv~~ ♂	Mm	3-2.2	122-20	21.5	2.5	−				
110 Juv ♂	Mm	3-6.0	114-18	14.2	3.0	−				
111 SA ♂	Mm	3-9.4	120-20	20.7	3.0	−				
112 SA ♂	Mm	3-7.4	125-20	22.5	4.0	−				
113 SA ♀	Mm	3-10.0	126-20	20.0	Br	<1.0	0	0	0	0
114 Juv ♂	Mm	3-8.4	115-16	19.7	2.0	−				
115 Juv ♀	Mm	3-8.2	113-15	18.6	Br	<1.0	0	0	0	0
116 SA ♀	Mm	3-6.8	114-15	20.9	Br	<1.0	0	0	0	0
117 Juv ♂	Mm	3-6.0	96-12	16.2	3.0	−				
skull crushed 118 SA ♂	Mm	3-4.8	127-20	21.0	2.0	−				

Specimen Register

5 August cont

	Sp	trap site	TL / T	wt	testis Gap/Br	UH ep±	V plug	Emb	Scars	Lact
119 Ad ♂	Mm	3-1.6	140-21	39.5	11.0	+				
skull crushed 120 SA ♂	Mm	3-0.2	111-18	18.9	2.0	–				
21 Juv ♂	Mo	2-9.8	110-23	14.5	2.0	–				
skull crushed 22 SA ♂	Mo	2-7.8	126-24	18.3	2.0	–				
august ~~3~~	Okpilak Lake									
23 SA ♂	Mm	3-10.0	115-20	19.2	2.0	–				
skull crushed 24 SA ♂	Mm	3-7.8	120-21	19.7	3.0	–				
25 SA ♂	Cle	3-6.8	129-25	20.9	2.5	–				
26 Juv ♂	Mm	3-7.2	115-18	18.1	3.0	–				
127 Juv ♀	Mm	3-5.8	115-18	15.5	Br	<1.0	0	0	0	0
128 Juv ♀	Mm	3-5.2	117-19	16.3	Br	<1.0	0	0	0	0
129 Juv ♀ ~~♂~~	Mm	3-6.6	116-18	18.2	Br	<1.0	0	0	0	0
130 Ad ♂	Cle	3-6.0	140-34	33.0	11.0	+				
131 Ad ♂	Mm	3-1.2	137-24	39.7	10.0	+				
132 Ad ♀	Mm	3-1.0	143-24	41.6	gap	1.0	0	0	10(5/5)	+
33 Ad ♀	Lem	1-2.4	150	60.0	gap	3.0	0	7(3/4) 13 mm	0	+
34 Ad ♀	Mm	3-1.6	141-23	40.7	gap	1.0	0	0	6(~~2~~/4)	+
skull crushed 35 Juv ♂	Mm	3-0.0	113-18	18.3	2.0	–				
36 SA ♀	Mm	3-3.6	117-19	18.4	Br	<1.0	0	0	0	0
37 SA ♂	Mm	3-3.6	120-18	19.4	3.0	–				
38 Ad ♀	Mo	2-0.8	150-33	32.2	gap	2.0	0	6(5/1) 4 mm	7(2/5)	+
skull crushed 39 Juv ♂	Mo	1-6.0	81-15	6.7	3.0	–				
140 Juv ♀	Mm	3-5.2	110-16	18.1	Br	<1.0	0	0	0	0
skull crushed 141 Ad ♀	Mo	2-9.2	160-33	34.3	gap	1.0	0	0	14(7/7)	0
skull crushed 142 SA ♂	Mm	3-7.0	125-20	21.2	3.0	–				

~~143~~

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1958

Specimen Register

August, Okpilak Lake

No.			Sp	Trap site	TL / T	wt	~~testes~~ gap/Br	UH ep±	V plug	Emb	Scars	Lact
143	SA	♀	Cle	3-5.0	130-25	20.5	Br	<1.0	0	0	0	0
144	SA	♂	Mm	3-0.6	119-20	18.8	3.5	–				
145	Juv	♂	Mm	3-8.0	101-20	14.5	2.0	–				
46	Juv	♂	Mo	2-2.8	122-26	19.5	3.0	–				
47	Juv	♂	Mm	3-9.0	115-21	19.6	4.0	–				
48	Juv	♀	Mm	3-2.0	116-15	19.0	Br	<1.0	0	0	0	0
49	SA	♀	Mm	3-0.6	119-19	17.4 ~~16.5~~	Br	<1.0	0	0	0	0

150 Ad ♂? Calcarius (picta ?) ~~testis~~ gonad indist (skeleton)
skel 151 Ad ♂ Calcarius lapponicus, testis = 1x1 (skeleton)
sk skel 152 Ad ♀? Calcarius lapponicus, ~~ovary~~ gonad indistinct, (skeleton
sk skel 153 Ad ♂ Calcarius lapponicus, testis 2x2 (skeleton)
154 Ad ♂ Acanthis (flammea?), testis 1x1 (skeleton
155 Ad ♂ Acanthis hornemanni, testis = 3x2, (skeleton)
156 Ad ♂ Anthus spinoletta, testis = 3x2 (skeleton)
157 Ad ♂ Anthus spinoletta, ~~testis~~ gonad 1.5x1.0 (skeleton)
158 Ad ♂? Spizella arborea, ~~testis~~ indist (skeleton)
sk skel 159 ♀? juv Passerculus sandwichensis, ovary indist (skeleton)
skel 160 ♂ Calcarius picta – at base of alluvial fan, wt = 19.0 medium fat, testis 3x2 (skeleton)

August, Okpilak Lake

No.			Sp	Trap site	TL / T	wt	gap/Br	UH ep±	V plug	Emb	Scars	Lact
161	Juv	♀	Mm	4-10.0	111-17	16.8	Br	<1.0	0	0	0	0
162	Ad	♀	Mm	4-10.0	145-22	36.6	gap	3.0	0	6 (1/5) 9 mm	0	0
163	SA	♂	Mm	4-8.4	120-20	17.6	3.0	–				
164	SA	♂	Mm	4-8.8	123-20	20.0	3.0	–				
165	Ad	♂	Mm	4-8.4	151-26	41.3	11.0	+				
166	Ad	♂	Mm	4-3.2	BL = 105	25.5	9.0	+				

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1958

Specimen Register

August, Okpilak Lake

	Sp	trap site	TL / T	wt	testis gap/Br	UH ep±	V plug	Emb	Scars	Lact	
7 SA ♀	Mm	4-0.8	126-17	23.3	gap	2.0	0	5(1/4) 5mm	5(2/3)	0	
8 SA ♂	Mm	4-2.0	116-19	18.0	3.0	—					
9 Juv ♂ (crushed)	Mm	4-5.8	119-19	17.9	2.0	—					
0 SA ♂	Mm	4-2.2	120-18	18.7	3.0	—					
1 SA ♂	Mm	4-46	126-18	19.4	3.0	—					
2 SA ♂	Mm	4-6.8	125-21	18.8	3.0	—					
3 SA ♀	Mm	4-6.4	120-18	23.4	gap	3.0	0	4(2/2) 11mm	0	0	fat accumulating
4 SA ♂	Mm	4-5.6	119-15	18.9	3.5	—					

August, Okpilak Lake

	Sp	trap site	TL / T	wt	testis gap/Br	UH ep±	V plug	Emb	Scars	Lact	
175 Ad ♀	Mm	4-2.2	132-19	33.4	gap	large	0	6(3/3) 22mm	0	0	
176 Ad ♀	Mm	4-6.2	128-20	26.5	gap	large	0	4(2/2) 15mm	0	0	
77 Juv ♀ (skull crushed)	Mm	4-7.6	116-17	15.4	crushed	<1.0	0	0	0	0	
78 Ad ♀	Mm	4-6.4	137-20	30.5	gap	3.0	0	0	8(4/4)	+	
79 SA ♀ (skull crushed)	Mm	4-9.4	125-19	19.4	Br	<1.0	0	0	0	0	
80 SA ♂	Mm	4-8.8	119-19	18.0	3.0	—					
81 SA ♀	Mm	4-4.8	131-20	23.3	gap ~~[illegible]~~	3.0 ~~[illegible]~~	0	3(1/2) 11mm	0	0	
82 SA ♂	Mm	4-4.8	120-20	18.5	3.0	—					

August, Okpilak Lake

	Sp	trap site	TL / T	wt	testis gap/Br	UH ep±	V plug	Emb	Scars	Lact	
83 Ad ♀	Mm	5-9.6	150-24	35.0	gap	1.0	0	0	5(4/1) indist.	0	
84 Ad ♀	Mustela rixosa	5-5.0	150-17	24.7	—	2.0	0	0	indist	0 but fat tissue still present	
85 Ad ♂	Mm	5-8.2	150-21	50.3	8.0	—?	a very tired old bull.				
86 Ad ♂	Mm	4-1.4	145-22	35.2	10.0	+					
187 Juv ♂	Mm	4-9.2	115-20	18.1	3.0	—					
188 SA ♀ ~~♂~~	Mm	4-4.2	134-20	? ~~gap~~	gap ~~[illegible]~~	3.0	0	12 resb 6(2/4) 13mm	0	0	
189 SA ~~♂~~ ♀	Mm	5-8.8	BL= 100	22.0	Br ~~[illegible]~~	<1.0 ~~[illegible]~~	0	0	0	0	rear chewed up in trap – not saved
190 SA ♂	Mm	5-9.0	125-20	21.0	3.5	—	back chewed up in trap - not saved				

T. Code
1958-

Specimen Register

1 August - Cont

	Sp	trap site	TL / T	wt	testis gap/Br	UH ep±	V plug	Emb	Scars	Lact
91 Ad ~~♀~~ ♂ (skull crushed)	Mm	5-6.4	146-25	40.0	7.0	-?				
92 SA ♂	Mm	4-9.4	115-17	17.0	3.0	—				
93 SA ♂	Mm	5-9.0	125-20	23.4	3.5	—				
94 SA ♂	Mm	5-9.6	119-20	19.2	2.5	—				
95 SA ♂	Mm	5-8.6	130-22	23.2	3.0	—				
96 SA ♀ (skull crushed)	Mm	5-8.2	124-20	22.7	Br	<1.0	0	0	0	0
97 SA ♀	Mm	5-8.8	123-20	20.0	Br	<1.0	0	0	0	0
98 SA ♀	Cle	5-0.8	125-26	19.2	Br	<1.0	0	0	0	0
99 SA ♂ (skull crushed)	Cle	5-6.2	126-27	20.0	2.5	—				
200 Ad ♀	Mm	5-1.0	145-23	35.0	gap	1.0	0	0	8(8/0)	0
201 SA ♀	Mm	5-5.4	120-20	18.0	Br	<1.0	0	0	0	0
202 Ad ♀	Mm	5-9.0	150-23	44.2	gap	1.0	0	0	14(8/6) - 2 sets?	+
203 SA ♀	Mm	5-7.8	125-21	21.7	Br	<1.0	0	0	0	0
204 SA ♂	Mm	5-7.2	125-20	21.0	3.0	—				
205 SA ♀	Mm	5-7.6	120-20	18.5	Br	<1.0	0	0	0	0
206 SA ♀	Mm	5-3.2	125-20	20.5	Br	<1.0	0	0	0	0
207 SA ♀	Mm	5-6.8	121-22	21.0	Br	<1.0	0	0	0	0
208 Ad ♀	Mm	5-6.2	149-22	34.8	gap	1.0	0	0	11(4/7)	0

August, Okpilak River - at head of Contact Creek

09 Juv ? Eremophila alpestris, granite talus slope at 4800 ft. wt = 37 gm. gonad destroyed medium fat

10 Ad ♂ Eremophila alpestris - same locality & habitat at 4500 ft, wt = 43.3, medium fat, testis 2×2

211 Juv ♂ Leucosticte tephrocotis, granite talus slope at 4800 ft - same locality, wt = 28 gm, heavy fat, testis 1×1

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1958

Specimen Register

These numbers duplicated for a series of birds

August, Okpilak Lake

	Sp	Trap Site	TL / T	wt	testis gap/Br	UH ep ±	V plug	Emb	Scars	Lact		
212 SA ♂	Mm	5-4.4	123-20	20.6	3.0	—				Pelt &	skull	not saved
213 SA ♂	Mm	5-1.2	115-22	17.5	3.0	—				"	"	"
214 Juv ♂	Mm	5-5.6	115-21	18.5	2.0	—				"	"	"
215 SA ♂	Mm	5-0.8	115-20	17.3	2.5	—				"	"	"
216 ~~Ad~~ Ad ♀	Mm	5-0.2	144-23	30.6	gap	1.0	0	0	9(5/4)	0	(Skeleton)	
217 SA ♂	Mm	5-8.0	122-21	20.0	2.0	—				pelt &	skull not saved	
218 Juv ♂	Mm	5-5.6	114-23	17.0	3.0	—				"	"	"
219 SA ♀	Mm	5-6.4	120-20	18.5	Br	<1.0	0	0	0	0	"	"
220 SA ♂	Mm	5-0.4	117-20	19.0	3.0	—				"	"	"
221 Juv ♂	Mm	5-6.0	116-19	18.0	3.0	—				"	"	"
222 SA ♂	Mm	5-6.6	125-20	21.5	4.0	—				"	"	"
223 Ad ♂	Mo	6-1.2	152-34	34.2	8.5	+					(Skeleton)	
224 SA ♂	Mm	6-0.2	117-22	19.3	3.5	—				Pelt & not	skull saved	
225 SA ♀	Mm	6-0.4	118-20	19.0	Br	<1.0	gaping 0 vagina	0	0	0 "	"	"
~~Aug~~ August Okpilak Lake												
26 Ad ♂	Sorex	6-1.2	89-24	5.0	5.0	+						
27 SA ♀	Cle	5-3.2	127-25	20.2	Br	<1.0	0	0	0	0		
28 Ad ♀	Mm	5-7.0	155-23	38.5	gap	1.0	0	0	14(6/8)	0		
29 SA ♂	Mm	6-0.0	119-19	19.3	3.0	—				pelt & not	skull saved	
30 SA ♀	Mm	5-8.6	115-16	17.6	gap	<1.0	0	0	0	"	"	
31 SA ♀	Mo	6-7.6	130-24	19.2	Br	<1.0	0	0	0	0		
32 Ad ♀	Mm	5-8.8	150-22	43.4	gap	1.0	0	0	18(10/8)	0	Skin &	skull not saved
233 SA ♂	Mm	5-8.2	121-24	18.4	2.5	—					"	"
234 SA ♂	Mm	5-4.4	124-20	21.4	2.5	—					"	"
235 SA ♂	Mm	5-7.6	123-20	21.4	3.0	—					"	"
236 SA ♀	Mm	5-8.6	121-20	19.6	Br	<1.0	0	0	0		"	"

Code
1958

Specimen Register

these numbers duplicated for a series of mammals (212–223)

13

August, Okpilak River, Alaska

212 Juv ? *Plectrophenax nivalis*, granite talus at head Contact Cr. 4800 ft. wt = 35 gm. medium fat, gonad destroyed by shot.

13 Ad ♀ [by plumage] *Plectrophenax nivalis*, same locality & habitat, (skeleton) wt = 33.5 - nearly full winter plumage, medium fat, foll <1.0

14 Ad ♀ *Plectrophenax nivalis*, same as above, wt = 33.9 half into winter plumage, heavy fat, gonad destroyed (skeleton)

15 Juv ♂ *Turdus migratorius*, near mouth of Contact Creek in tall willows, wt = 89.5, light fat, testes = 2×1 blueberries in alimentary tract

16 Juv ♂ *Turdus migratorius*, same as above, wt = 73.5 light fat, testes = 2×1 blueberries eaten.

217 Juv ♀? *Turdus migratorius*, same as above, wt = 62.5, no fat, gonad indistinct. blue berries eaten

18 Juv ♂ *Turdus migratorius*, same as above, wt = 67.0 no fat, testes 2×2 (Skeleton) blueberries.

19 Juv ♀? *Turdus migratorius*, same as above, wt = 74.8 no fat, gonad indistinct (skeleton) blueberries.

20 Juv ♂ *Turdus migratorius*, same as above, wt = 76.5 light fat, testes 3×2 (skeleton) blueberries.

21 ~~Ad~~ juv ♂ *Heteroscelus incana*, mid course of Contact Creek at 3500 ft. wt = 110.0, heavy fat, testes = 3×1 (Skeleton)

22 Ad ♀ *Leucosticte tephrocotis*, head Contact Cr at 4800 ft. wt = 27.7, med. fat, foll <1.0 (Skeleton)

223 imm. ♀ *Zonotrichia leucophrys*, near mouth Contact Creek, tall willow, wt = 21.3, light fat, foll <1.0 (Skeleton)

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1958

Specimen Register

August Okpilak Lake

No.	Sp	Trap site	TL / T	wt	testis gap/Br	UH ep ±	V dug	Emb	Scars	Lact		
37 SA ♂	Mm	5-9.8	122-21	18.0	3.0	–					skin not	skull saved
38 SA ♀	Mm	5-9.8	122-18	18.9	Br	<1.0	0	0	0	0	"	"
39 SA ♂	Mm	5-4.8	122-19	19.9	2.5	–					"	"
40 SA ♂	Mm	5-9.4	122-20	20.0	3.0	–					"	"
41 Juv ♂	Mm	5-6.2	117-17	14.5	4.0	–					"	"
42 SA ♂	Mm	5-1.0	119-20	18.8	3.0	–					"	"

August, Okpilak Lake

No.	Sp	Trap site	TL / T	wt	testis gap/Br	UH ep ±	V dug	Emb	Scars	Lact		
43 SA ♂	Lem	6-2.4	113	20.8	3.0	– pelt accidentally destroyed					~~pelt destroyed~~	
44 Ad ♀	Mm	5-8.4	150-23	38.0	gap	1.0	0	0	8(5/3) indst.	0	"	"
245 Ad ♂	Mm	5-8.8	151-23	37.8	8.0	+?					(skeleton)	
246 SA ♂	Mm	5-4.4	125-20	20.0	4.0	–					s&s not saved	
247 SA ♀	Mm	5-4.8	130-22	24.5	gap	1.0	0	0	5(4/1)	0	"	"

August, Okpilak Lake

No.	Sp	Trap site	TL / T	wt	testis gap/Br	UH ep ±	V dug	Emb	Scars	Lact
248 Ad ♀	Mo	~~near~~ T2	165-35	38.5	gap	1.0	0	0	14(9/5)	0
249 SA ♂ (skull crushed)	Mo	" "	121-25	16.2	2.5	–				
250 SA ♂ (skull crushed)	Mo	" "	119-25	16.0	2.0	–				

August, Okpilak Lake

No.	Sp	Trap site	TL / T	wt	testis gap/Br	UH ep ±	V dug	Emb	Scars	Lact
251 SA ♂	Mo	" "	125-27	16.1	2.0	–				
252 SA ♀	Mo	" "	122-27	15.5	Br?	<1.0	0	0	0	0

August, Jago Lake

No.	Sp	Trap site	TL / T	wt	testis gap/Br	UH ep ±
253 Juv ♂	Lem	4-1.4	95.0	17.0	3.0	–

254 Ad ♂ *Lagopus mutus*, dwarf shrub-heath on slope of moraine
wt = 523 gm, light fat, crop empty, testis 5x4

20 August Jago Lake

No.	Sp	Trap site	TL / T	wt	testis gap/Br	UH ep ±	V dug	Emb	Scars	Lact
255 Ad ♂	Mo	3-5.6	165-38	38.5	7.0	+				
256 Juv ♀	Mo	3-2.8	114-24	16.8	Br	<1.0	0	0	0	0

Code
1958

Specimen Register

6 August, Jugo Lake

No.		Sp	Trap Line	TL / T	wt	testis gap/Br	UH ep±	V plug	Emb	Scars	Lact
257	Juv ♀	Mo	3-4.6	119-25	17.1	Br	<1.0	0	0	0	0
258	Juv ♂	Mo	3-3.0	124-27	18.5	3.5	–				
.59	Juv ♂	Mo	3-2.8	120-24	16.3	3.0	–				
.60	Juv ♂	Mo	3-6.0	119-29	16.5	4.0	–				
.61	Juv ♂	Mo	3-6.8	120-24	16.8	3.0	–				

62 Juv ? *Luscinia svecica*, tall willow brush on creek in upland moraine; same locality as 1957 specimen; wt = 15.5, skull clear, light fat, gonad indist.

August, Jugo Lake

No.		Sp	Trap Line	TL / T	wt	testis gap/Br	UH ep±	V plug	Emb	Scars	Lact
.63	Juv ♀	Mo	3-3.2	123-24	17.8	Br	<1.0	0	0	0	0

skel 264 Ad ♀ *Zonotrichia leucophrys*, tall willow brush along creek on upland moraine, wt = 22.0, light fat, foll. <1.0 (Skeleton)?

skel 265 Imm ? *Zonotrichia leucophrys*, same as above, wt = 23.5 light fat, gonad indist (Skeleton)

266 Ad *Spizella arborea*, same as above, wt = 16.1, light fat, testis 1 X 0.5 (Skeleton)

No.		Sp	Trap Line	TL / T	wt	testis gap/Br	UH ep±	V plug	Emb	Scars	Lact
267 (eaten in trap)	Juv ♂	Lem	4-8.2	91.0	11.5	3.0	–				

August, Jugo Lake

No.		Sp	Trap Line	TL / T	wt	testis gap/Br	UH ep±	V plug	Emb	Scars	Lact
.68	Ad ♂	Mo	2-6.0	180-42	46.1	5.5	–				

August, Jugo Lake

No.		Sp	Trap Line	TL / T	wt	testis gap/Br	UH ep±	V plug	Emb	Scars	Lact
.69	Ad ♂	Mo	2-9.4	179-35	44.1	6.5	–?				
70	SA ♂	Mo	2-7.2	123-24	17.1	3.0	–				
.71	Juv ♂	Mo	2-6.6	121-25	16.2						
272	Juv ♀	Mo	2-4.4	116-22	16.4	Br	<1.0	0	0	0	0
273	Ad ♀	Mo	2-4.6	145-31	36.8	gap	1.0	+	0	6(2/4)	0
274	Ad ♂	Mo	at little lake	140-34	33.7	7.0	+				
275	SA ♀	Mo	"	128-30	18.8	Br	1.0	0 vagina gaping	0	0	0

Cade
1958

Specimen Register

3 August cont

	Sp	Trap site	TL / T	wt	testis / Br	UN ep±	V plug	Emb	Scars	Lact
skull crushed -76 SA ♀	Mo	at little lake	119-23	17.2	Br	1.0	0 uteri	0 milky,	0 vagina	0 gaping
.77 SA ♀	Mo	"	127-26	19.8	Br	<1.0	0	0	0	0

…August, Jogo Lake

	Sp	Trap site	TL / T	wt	testis / Br	UN ep±	V plug	Emb	Scars	Lact
78 Ad ♀	Mo	at little lake	155-33	33.8	gap	1.0 milky	0	0	5(3/2)	+
79 Ad ♀	Mo	2-9.4	146-30	28.2	gap	1.0 milky	0	0	indst,	0
80 Ad ♂	Mo	2-4.0	170-40	35.7	6.0	–				
.81 SA ♀	Mo	2-6.0	134-29	25.5	gap	1.0	0	milky 0	indst	0

.82 Juv ♀? *Turdus migratorius*, willow brush along hillside stream, wt = 69.9, light fat, gonads indst. alimentary tract full of blue berries.

283 Ad ♀ *Gallinago gallinago*, wet grass-sedge dwarf willow drain at edge of Jogo Lake, wt = 137.9, heavy fat subcutaneous fat = 4.28 gm, visceral fat = 4.5 gm follicles <1.0

August, Jogo Lake

	Sp	Trap site	TL / T	wt	testis / Br	UN ep±
284 Ad ♂	Lem	6-7.8	131	41.2	5.0	–
skull crushed .85 SA ♂	Lem	2-4.0	115	26.5	3.5	–
.86 SA ♂	Lem	2-4.0	111	25.5	3.0	–

.87 Ad ♂ *Mustela erminea*, under Jamesway in ground squirrel burrow system, wt = 274.4, TL = 358.0, T = 90, HF = 50. Skin not saved. (Skull & skeleton) testis = 6.0 prime. Skin [illegible]

…ainwright, Alaska, September 23, 1957

		Sp	Trap site	TL	wt	testis / Br	UN ep±	V plug	Emb	Scars	Lact
288	♂ A	L	1-0.0	124	41.6	2	–				
89	♂ A	"	"	126	40.8	2	–				
90	♂ A	"	1-0.2	120	40.2	3	–				
91	♀ A	"	1-1.0	120	42.0	Br	<1	–	0	0	–
92	♀ A	"	1-1.2	116	38.7	"	"	–	0	0	–
93	♀ A	"	"	142	64.7	gap	1	–	0	9(5+4)	–
94	♂ A	"	1-1.4	118	40.5	3	–				

T. Cade
1958

Specimen Register

23 September Wainwright, Alaska (Recorded by H.E. Childs Jr.)

~~295~~		SP	Trap site	TL / T	wt	testis gap/Br	UH ep t	V plug	Emb	Scars	Lact
295	♀	L	1-1.6	114	38.3	br	—	—	0	0	—
96	♀	"	"	116	41.3	"	1	—	0	0	—
97	♀	"	1-1.8	128	45.3	"	<1	—	0	0	—
98	♂	"	1-2.2	132	51.6	3	—				
99	♀	"	1-2.4	125	42.4	br	<1	—	0	0	—
300	♂	"	1-2.6	126	50.6	3	—				
01	♂	"	1-3.2	115	40.4	3	—				
02	♀	"	1-3.2	120	41.4	br	1	—	0	0	—
03	♂	"	1-3.6	128	46.5	3	—				
04	♀	"	1-4.0	121	37.8	br	<1	—	0	0	—
05	♂	"	"	122	40.6	2	—				
06	♀	"	1-4.6	127	44.5	br	1	—	0	0	—
07	♂	"	1-5.0	125	46.7	3.5	—				
08	♂	"	1-6.4	124	37.6	3	—				
09	♂	"	1-7.2	129	48.2	3	—				
10	♀	"	1-8.8	122	37.6	br	1	—	0	0	—
11	♀	"	1-9.2	128	44.1	gap?	<1	—	0	0	—
12	♀	"	1-9.6	128	46.1	br	"	—	0	0	—
13	♀	"	1-10.0	124	40.6	br	"	—	0	0	—
14	♂	"	2-0.2	122	38.5	2	—				
15	♀ j	"	"	111	26.0	br	1	—	0	0	—
16	♂	"	2-0.4	128	48.8	3	—				
17	♂	"	2-0.8	126	43.6	4	-				
18	♀	"	"	121	37.5	br	1	—	0	0	—
19	♀	"	2-2.8	128	39.0	gap	1	—	0	0	—
20	♂	"	2-3.4	128	39.7	3	—				

T. Code
1958

Specimen Register

23 Sept. Wainwright, Alaska

		Sp	Trap site								Ind?		
321	♀	L	2-3.4	142	61.6	gap	1	—	0	12(6-6)	—		
22	♂	"	2-6.2	126	39.1	4	—						
23	♀	"	"	120	35.4	gap	1	—	0	0	—		
24	♂	"	2-8.2	124	36.0	2	—						
25	♀	"	2-9.0	124	35.5	br	1	—	0	0	—		
skull 26	♀	"	"	120	35.2	br ~~gap~~	<1	—	0	0	—		
27	♀	"	2-9.4	146	62.5	gap	1	—	0	13(4-9)	—		
28	♂	"	2-10.0	132	48.0	3	—						
29	♂	"	1-0.8	129	40.4	3.5	—						
30	♂	"	1-1.0	123	38.8	3	—						
31	♂	"	1-2.6	99 no tail	36.0	3	—						
32	♀	"	1-4.2	133	52.5	gap	1+	—	0	0	+?		
33	♂	"	1-5.6	124	42.1	4	—				~~+~~		
34	♂	"	1-6.0	132	48.9	2	—						
35	♀	"	1-7.0	121	34.2	br	1	—	0	0	—		
36	♀	"	1-9.0	147	68.5	gap	1	—	0	15(7-8)	—		
37	♀	"	1-9.8	153	75.7	"	1	—	0	10(3-7)	—		
38	♀	"	1-1.8	130	44.2	Br	<1.0	—	0	0	0		
...mber, 1957, Wainwright, Alaska													
39	♂	Lem	Native caught	130	40.0	3.0	—						
40	♂	"	"	120	34.4	?	—						
41	♀	"	"	121	30.0	br	<1	op	0	0	—		
42	♀	"		120	51.0?	?						skin & skull not saved	
43	♀	"		123	34.8	gap	<1	op	0	0	—	"	"
44	♂	"		115	38.4	3	—					"	"
45	♀	"		140	55.1	gap	1	op	0	ind.	—	"	"
46	♂	"		120	36.1	2	—					"	"

Chilled (margin note beside 29–33)

Code
1958

Specimen Register

November Wainwright, Alaska 1957

													skin & skull not saved	
347	♂	L	native caught	115	30.5	2	—							
48	♂	"	"	126	37.9	4	—						"	"
49	♂	"	"	127	37.6	3	—						"	"
50	♂	"	"	122	35.4	2	—						"	"
51	♀	"	"	112	35.7	gap?	1	-	0	0	-		"	"
52	♂	"	"	135	43.4	3.5	—						"	"
53	♀	"	"	116	27.4	gap?	<1	—	0	0	—		"	"
54	♀	"	"	125	36.0	br	"	—	0	0	—		"	"
55	♂	"	"	122	36.0	3	—						"	"
56	♂	"	"	128	49.0	4	—						"	"
57	♂	"	"	117	34.3	3	—						"	"
58	♂	"	"	118	38.6	3	—						"	"
59	♂	"	"	121	47.2	3	—						"	"
60	♂	"	"	122	45.3	3	—						"	"
61	♂	"	"	122	34.4	3	—						"	"
62	♂	"	"	118	38.2	?	—						"	"
63	♀	"	"	124	35.3	gap	1	op	0	md	—		"	"
64	♂	"	"	120	39.6	3	—						"	"
65	♂	"	"	116	31.8	2	—						"	"
66	♀	"	"	110	31.5	br	<1	op	0	0	—		"	"
67	♀	"	"	119	29.1	br	"	op	0	0	—		"	"
68	♀	"	"	110	28.6	"	"	"	0	0	—		"	"
69	♀	"	"	128	59.1	br	"	"	0	0	—		"	"
70	♂	"	"	120	41.5	3	—						"	"
71	♂	"	"	95	21.8	2.5	—						"	"
72	?	"	"	12?	39.4	—							"	"

Rotten — see Brooks notes July 14

Measured by R. L. Chiille

Specimen Register

November Wainwright, Alaska 1957

372	♀	L	native caught	122	38.5	br	≤1	op	0	0	—	skull & skull not severe	
73	♀			112	31.5	br	<1	—	0	0	—	"	"
74	♀			118	31.3	gap	1	op	0	ind	—	"	"
75	♀			119	37.5	gap	1	op	0	"	—	"	"
76	♂			122	35.0	4	—					"	"
77	♂			120	36.0	8	—?					"	"
78	♂			120	49.7	5	—					"	"
79	♀			115	35.0	gap	<1	op	0	0	—	"	"
80	♂			113	35.1	3	—					"	"
81	♀			128	51.0	gap	1	op	0	ind	—	"	"
82	♂			137	60.5	8	—?					"	"
83	♂			110	32.2	3	—					"	"
84	♀			111	39.7	br	<1	op	0	0	—	"	"
85	♀			116	40.3	gap	"	"	0	0	—	"	"
86	♂			110	35.4	3	—					"	"

August, Jago Lake, Alaska

387	Juv ♀	Mo	near T2	114-25	15.2	Br	21.0	0	0	0	0	—	—
388	Juv ♀	Mo	"	120-25	16.9			+				—	—

389 Ad ♂ Plectrophenax nivalis, on dwarf shrub-heath moraine along river, wt = 35.7, medium fat, testis 2.0 x 1.0

June, Barrow, Alaska

390	Ad ♀	Lem	—	135	50.5	gap	2.0	—	7(3/4) 15mm	0	0	—	—

[No]vember, 1957, Wainwright, Alaska

91	♀	"		105	30.0	br	<1	-	0	0	—	"	"
92	♂			125	35.5	3	—					"	"
93	♀			129	55.0	gap	1	op	0	ind	—	"	"
94	♂			117	36.0	3.5						"	"

T. Cade
1958

Specimen Register

November, 1957, Wainwright, Alaska

												Pelts &	skulls not saved
395	♀	Wan	not [illegible]	125	44.0	gap	.1	op	void				
96	♂			127	36.5	3	—					"	"
97	♂			130	36.0	3	—					"	"
98	♀			115	31.0	gap?	1	op	0	0	—	"	"
99	♀			122	43.5	br	<1	"	0	0	—	"	"
400	♀			115	35.5	br	<1	"	0	0	—	"	"
01	♀			125	38.5	br	<1	op	0	0	—	"	"
2	♀			120	35.0	-	<1	op	0	0	—	"	"
3	♂			117	40.0	4	—					"	"
4	♂			117	42.0	3	—					"	"
5	♀			120	40.5	br	<1	op	0	0	—	"	"
6	♂			125	40.5	2.5	—					"	"
7	♀			115	40.0	br	<1	op	0	0	—	"	"
8	♀			115	38.0	br?	?	"	—	—	—	"	"
9	♀			120	40.5	gap	<1	"	0	0	—	"	"
10	♂			123	49.0	2	—					"	"
11	♂			120	30.5	3	—					"	"
12	♀			125	39.5	br	<1	op	0	0	—	"	"
13	♀			122	44.0	"	"	"	0	0	—	"	"
14	♂			110	29.0	2	—					"	"
15	♀			120	40.5	gap	<1	op	0	0	—	"	"
16	♂			125	47.5	3.5	-					"	"
17	♂			125	39.6	2	—					"	"
18	♀			115	31.0	br	<1	op	0	0	—	"	"
19	♂			125	47.0	2	—					"	"
20	♀			127	40.5	gap	1	op	0	0	—	"	"

recorded by H. E. Childs

T. Code
1958

Specimen Register

November, 1957, Wainwright, Alaska

		Sp	Trap site	TL/T	wt	testis gap/Br	UH ept	V plug	Emb	Scars	Lact	pelts e skulls not	saved
421	♀	L	natives caught	115	35.0	br	<1	op	0	0	—	"	"
22	♂	"	"	150	66.5	6	—	[illegible]				"	"
23	♀	"	"	120	43.0	gap	<1	op	0	0	—	"	"
24	♂			125	45.5	3	—					"	"
25	♂			127	50.0	?	—					"	"
26	♀			121	40.0	br	<1	op	0	0	—	"	"
27	♀			122	45.0	br	"	"	0	0	—	"	"
28	♂			117	40.5	2	—					"	"
29	♂			125	39.5	2	—					"	"
30	♂			117	27.5	2	—					"	"
31	♀			141	62.0	gap	1	op	0	ind	—	"	"
32	♀			142	60.5	"	1	"	0	ind	—	"	"
33	?			115	37.5							"	"
34	♂			121	34.5	2	—					"	"
35	♂			123	52.0	3	—					"	"
36	♂			130	43.0	3	—					"	"
37	♀			115	33.5	br	<1	cl	0	0	—	"	"
38	♀			125	38.0	br	1	"	0	0	—	"	"
39	♂			120	42.0	3	—					"	"
40	♂			117	37.5	3	—					"	"

Collected by H. E. Childs

September, Meade River, Alaska - at Coalmine

441	SA ♀	Dic	7-7.2	110	31.4	Br	<1.0	0	0	0	0
442	SA ♂	Lem	9-5.0	111	27.8	4.5	–				
443	SA ♂	Lem	9-4.2	112	28.2	8.5	+				
444	Ad ♀	Lem	9-8.8	137	45.6	gap	1.0	0	0	6(4/2)	+

Ox

Cade
1958

Specimen Register

No.		Sp	Trap site	TL / T	wt	testis gap/Br	Ut ep ±	V plug	Emb	Scars	Lact
September, Meade River Coalmine											
445	Ad ♂	Lem	willows 6-1.4	115	43.3	9.0	+				
446	Juv ♂	Dic	7-4.2	90.0	17.7	3.5	–				
September ~~Di~~ Meade River											
447	Ad ♀	Di	8-5.0	118	45.2	gap	1.5	0	0	6(3/3)	0
448	Juv ♀	Di	7-8.4	91	18.8	Br	0.5	0	0	0	0
449	Ad ~~♂~~ ♀	Di	willow 6-6.6	118	41.2	Br	0.5	0	0	0	0
September, Meade River											
450	Juv ♂	Lem	spot trap #1	95	16.5	4.0	–				
451	SA ♂	Di	spot trap #1	108	~~37.6~~ 37.6	4.0	–				
452	Ad ♂	Mo	spot trap #4	182-40	66.2	9.0	–?				
453	Ad ♀	Mo	"	167-40	66.9	gap	4.0	0	8(4/4) 15mm	0	0
455	Ad ♀	Mo	"	166-38	51.2	gap	milky 1.5	0	0	0	0
456	SA ♀	Lem	spot trap #2	102	23.9	broken ?	milky 1.0	0	0	0	0
457	SA ♂	Lem	air 1-4.6	115	28.5	6.0	–				
September, Meade River											
458	SA ♂	Di	river 3-1.2	~~100.2~~ 102	32.2	3.5	–				
459	SA ♂	Di	river 3-2.0	~~90.8~~ 98	33.3	3.5	–				
460	Juv ♀	Lem	marsh 2-4.0	93	18.4	~~1.5~~ Br	milky 1.5	0	0	0	0
461	Ad ♂	Di	Marsh 2-9.6	119	42.0	? 5.0	~~[illegible]~~ –				
462	SA ♀	Di	marsh 2-7.6	110	34.0	Br	1.0	0	0	0	0
463	SA ♀	Di	marsh 2-0.4	109	32.3	Br	0.5	0	0	0	0
464	Ad ♀	Di	Marsh 2-3.2	130	52.3	gap	1.5	0	0	7(5/2)	0
8 September, Meade River											
465	SA ♂	Lem	river 3-6.6	115	25.1	5.0	–				
466	Juv ♂	Di	river 3-8.2	92	22.2	3.0	–				
467	Juv ♀	Di	Hill 4-5.8	95.0	21.2	broken Br?	1.0	0	0	0	0

Cade
1958

Specimen Register

September, Meade River Coalmine

468 Ad ♂ *Gavia arctica*, on Miliaktovik River, wt = 1967 g., fat = light. testis = 5 x 10 (Skeleton)

469 Juv? *Larus hyperboreus*, over river-mud bar, wt = 1082 g., fat = heavy (100+ gm subcut.) (Skeleton) gonads indistinct

September, Meade River

No.	Sp	Trap site	TL T	wt	testis gap/Br	Ut ep±	V plug	Emb	Scars	Lact
470 SA ♂	Mo	marsh 2-9.4	138-30	26.5	6.5	—				

September, Meade River Coalmine

No.	Sp	Trap site	TL T	wt	testis gap/Br	Ut ep±	V plug	Emb	Scars	Lact
471 Ad ♀	Mo	100x100 plot	177-41	53.6	gap	2.0	0	0	9(4/5)	+
472 Ad ♀	"	"	174-40	52.1	gap	1.5	0	0	6(4/2)	+
473 SA ♂	"	"	130-29	26.2	3.0	—				
474 SA ♂	"	"	133-30	27.6	3.5	—				
475 SA ♂	"	"	129-28	24.5	3.5	—				
476 SA ♂	"	"	130-29	23.0	2.5	—				
skull crushed 478 SA ♂	"	"	131-28	23.3	3.0	—				
479 SA ♂	"	"	130-28	23.7	3.0	—				
skull crushed 480 SA ♀	"	"	129-28	23.3	Br	<1.0	0	0	0	0
481 Juv ♀	"	"	123-26	20.8	Br	<1.0	0	0	0	0
482 SA ♀	"	"	132-28	24.8	Br	<1.0	0	0	0	0
483 SA ♂	"	"	135-32	25.2	4.5	—				
skull crushed 484 SA ♂	"	"	130-29	25.6	3.0	—				
skull crushed 485 SA ♂	"	"	130-27	26.7	3.0	—				
486 SA ♂	"	"	135-30	27.7	3.0	—				
487 SA ♂	"	"	134-30	24.4	3.0	—				
488 SA ♂	"	"	132-30	25.7	3.5	—				
489 SA ♂	"	"	131-30	23.7	3.0	—				

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1958

Specimen Register

September cont

	Sp	trap site	TL T	wt	testis gup/Br	UH ep ±	V plug	Emb	Scars	Lact
490 SA ♀	Mo	100x100 plot	130-27	22.2	Br	<1.0	0	0	0	0
491 SA ♂	"	"	135-29	26.1	3.5	—				
492 SA ~~♂~~♀	"	"	131-30	22.2	Br	milky 2.0	0	0	0	0
493 SA ♂	"	snap trap ~~#~~5	133-29	25.9	3.0	—				
494 SA ♂	"	site 5	135-30	28.0	3.0	—				
495 SA ♂	"	"	138-30	27.8	2.5	—				
496 SA ♂	"	"	135-31	25.0	2.5	—				
497 SA ♀	"	"	131-30	24.5	Br	<1.0	0	0	0	0
498 SA ♂	"	"	132-27	24.2	2.5	—				
499 SA ♂	"	"	133-29	25.3	2.0	—				
skull crushed 500 SA ♀	"	"	125-27	20.8	Br	<1.0	0	0	0	0

Barrow, Alaska

	Sp	trap site	TL T	wt	testis gup/Br	UH ep ±	V plug	Emb	Scars	Lact
501 SA ♀	Lem	10-7.6	97	18.4	broken	<1.0	0	0	0	0

September, Umiat, Alaska

	Sp	trap site	TL T	wt	testis gup/Br	UH ep ±	V plug	Emb	Scars	Lact
502 SA ♂	Lem	1-3.8	123	29.3	4.0	—				
503 SA ♂	Mo	by radio shack	123-24	15.5	3.0	—				

September Umiat, Alaska

	Sp	trap site	TL T	wt	testis gup/Br	UH ep ±	V plug	Emb	Scars	Lact
504 ♂	Sorex cinereus?	1-6.6	85-28	3.8	1.0	—				
505 Ad ~~SA~~ ♀	Mo	by radio shack	148-33	27.5	gup	1.5	0	0	0	0

September, Umiat, Alaska

	Sp	trap site	TL T	wt	testis gup/Br	UH ep ±	V plug	Emb	Scars	Lact
506 SA ♂	Mm	10-7.4	115-20	17.4	2.0	—				
skull crushed 507 SA ♀	Mm	10-3.4	123-20	20.0	Br	1.0	0	0	0	0
508 SA ♀	Mm	10-8.2	115-18	17.8	Br	<1.0	0	0	0	0
509 SA ♀	Mm	10-7.6	123-19	18.5	Br	<1.0	0	0	0	0

September, Umiat, Alaska

	Sp	trap site	TL T	wt	testis gup/Br	UH ep ±	V plug	Emb	Scars	Lact
510 SA ♂	Lem	2-2.4	111	23.5	3.5	—				

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Specimen Register

September, Umiat

skull chewed up	SP	Trap site	TL T	wt	testis gap/Br	UH ep ±	V plug	Emb	Scars	Lact
SA ♀	Mo	4-0.4	121-25	15.0	Br	<1.0	0	0	0	0
2 Juv ♀	~~Mo~~ Cle	8-10.0	90-17	8.5	Br	<1.0	0	0	0	0
3 SA ~~♂~~ ♀	Mm	10-3.6	110-20	14.5	Br	<1.0	0	0	0	0
4 SA ♀	~~Mm~~ Cle	8-2.8	114-24	14.2	Br	<1.0	0	0	0	0
skull crushed 5 SA ♀	Cle	8-3.2	119-26	17.1	gap	1.0	0	0	8(4/4)	0
SA ♂	Mo	6-4.6	124-25	18.4	3.0	—				
17 SA ♂	Mo	4-8.6	120-26	14.4	3.5	—				
18 SA ♂	Mo	4-0.6	129-27	21.1	2.0	—				
19 SA ♂	Mo	4-1.6	138-30	21.0	2.0	—				
520 SA ♂	Cle	8-2.4	112-25	15.5	2.0	—				
521 SA ♂	Mm	10-0.8	132-23	22.6	3.0	—				
522 ~~SA~~ Ad ♀	~~Mo~~ Cle	4-6.8	122-28	20.8	gap	1.0	0	0	7(4/3)	+
523 SA ♂	Mm	10-0.2	116-20	17.4	2.0	—				
524 SA ♀	Mo	4-2.4	133-30	19.6	gap	1.5	0	0	5(1/4)	0
525 SA ♀	Mo	by radio shack	122-26	16.6	Br	<1.0	0	0	0	0
526 SA ♀	Mo	6-4.2	120-24	18.5	Br	<1.0	0	0	0	0
527 SA ♂	Cle	8-9.2	109-23	14.3	3.0	—				

September, Umiat, Alaska

28 Ad ♂	Mo	4-8.0	173-40	45.1	5.0	—				
29 SA ♂	Cle	2-0.2	116-25	13.9	2.0	—				
skull crushed 30 SA ♂	Mm	106.0	125-22	20.0	3.0	—				
31 Ad ♀	Mo	4-1.0	172-39	38.5	gap	2.0	0	0	8(6/2)	+
532 ~~SA~~ Ad ♀	Mo	by radio shack	165-40	27.7	gap	1.0	0	0	6(1/5)	0
533 SA ♂	Cle	8-2.8	115-25	15.6	2.0	—				
534 SA ♀	Mo	by radio shack	125-30	15.8	Br	<1.0	0	0	0	0
535 Juv ♂	Mo	6-4.4	123-25	18.2	3.0	—				

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1958

Specimen Register

September Umiat

	Sp	Trap site	TL T	wt	testis gap/br	UH ep t	V plug	Emb	Scars	Lact
36 Juv ♂	Cle	8-8.6	110-25	11.5	3.0	—				
37 SA ♀	Mo	by radio shack	117-25	15.8	Br	<1.0	0	0	0	0
September, Umiat, Alaska										
38 SA ♂	Lem	8-7.4	110	22.8	3.0	—				
39 (skull crushed) Juv ♂	Cle	8-7.0	104-23	13.8	3.0	—				
40 SA ~~♂~~ ♀	Mo	4-3.6	118-14	17.4	Br	1.0	0	0	0	0
41 Ad ♂	Mo	4-3.4	156-32	30.5	4.0	—				
42 (skull crushed) Ad ♀	Sorex	8-0.8	100-31	7.4	gap	<1.0	0	0	0	0
3 Ad ♀	Sorex	6-4.8	98-30	6.8	gap	<1.0	0	0	0	0
13 September, Wainwright (Merl Solomon)										
544 ♂	Sorex	1-9.6	84-29	4.0	0.5	?				
. September, Wainwright (Merl Solomon)										
545 Ad ♂	Di	1-1.2	115	400	6.0	+?				
546 Ad ♂	Di	1-6.6	105	30.0	3.0	—				
September, Wainwright (Merl Solomon)										
547 Ad ♂	Di	1-4.4	122	44.0	6.0	+?				
September ~~Di 4-3.2 115 38~~ Wainwright (Merl Solomon)										
8 Ad ♀	Di	4-3.2	115	38	Br	1.0	0	0	0	0
September, Wainwright (Merl Solomon)										
9 (skull crushed) SA ♂	Di	3-2.2	102	32.0	7.0	+				
September, Barrow, Alaska										
0 SA ♂	Lem	3B-3.6	121	28.2	8.0	+				

31 August, Colville River, Alaska

551 Juv ♀ <u>Falco peregrinus</u> - nestling reared in captivity. Taken from nest 24 July at age 3-4 wks. Shot accidentally 31 Aug. wt 900 gm - no fat; foll. <1.0.

max. wt when live = 940 gm

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Specimen Register

May, Pitmegea River

No, Sex	Sp	wt	TL / T	testis / UH	ep ± / V plug	Lact	Emb	Scars	Trap set	Br gap	
#1, SA ♂	Mo	—	—	7.5	+	owl-killed - [illegible] girdle & four legs eaten off					
#2 SA-Ad ♂	Mo	32.4	146-30	7.0	+	owl killed					
May, Pitmegea											
#3 SA, ♂	Mo	17.6	125-28	mush	?	owl-killed - old & rotten					
#4 Ad ♂	Mo	36.0	158-34	8.0	+	owl-killed - fat					
#5, Ad ♀	Mo	33.5	152-34	2.0	0	fat [illegible]	8(5/3) 4 mm	0	Plot 3.6	gap	
#6, Ad ♂	Dic	73.8	148	8.0	+	very fat			Plot 8.6	winter [illegible] present	
#7, Ad ♀	Calcarius lapponicus, wt = 23.3								Plot 9.8	moderate fat, largest foll. = 4.0	
May, Pitmegea River											
#8, Ad ♀	Calcarius					wt = 25.3, light fat, foll. all 1-1.5 mm					
no skin #9, Ad ♀	"	"				wt = 26.3, light fat, largest foll = 2.0					
#10, Ad ♂	Mm	42.3	145-21	12.0	+				plot 1.8	made into study skin [illegible]	
#11, Ad ♂	Calcarius					wt = 25.1, no fat, rt testis = 11x5					
#12 Ad ♀	"	"									
#13 Ad ♀	Mo	46.5	155-36	5.0	-	fat [illegible]	6(3/3) 20 mm	0	plot 8.6	gap	
#14 Ad ♀	Calcarius					wt = 25.4, light fat, largest foll = 4.5 mm					
#15 SA ♂	Mo	32.3	144-30	8.0	+				plot 9.6		
May, Pitmegea River											
#16 Ad ♂	Calcarius					wt = 25.7, light fat, testes 8x7 mm					
#17 Ad ♂	Mo	41.0	160-34	8.0	+				Plot 2.8		
#18 Ad ♂	Calcarius					wt = 24.9, light fat, testis = 9 x 5.5					
#20 Ad ♂	Mm	38.1	135-20	11.0	+				plot 4.2		
#21 Ad ♂	Mo	41.4	145-30	8.5	+				plot 5.2		
#22 SA ♂	Lem	41.6	132	11.0	+				plot 8.6		
#23 ♀	Calcarius					wt = 22.4, light fat, largest foll = 2.0					
#24 Ad ♂	Lem	59.1	148	11.0	+				spot snap		

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Specimen Register

4 May, Pitmegea River

No.	Sp	trap site	wt	TL / T	testis / wt	ep ± / vplug	Br / gap	Emb	Scars	Lact
25, Ad ♂	Mo	spot trap	54.9	155-35	8.0	+	~~gap~~	3(1/2) 2.5 mm	ind. stud	0
26, Ad ♀	Mo	spot trap	39.4	158-31	1.5	0	++			

27, Ad ♀ Calcarius wt = 26.7 moderate fat, largest foll. = 2.0

29, Ad ♀ Calcarius wt = 22.8 very slight fat, largest foll. = 2.5 mm.

No.	Sp	trap site	wt	TL / T	testis / wt	ep ± / vplug
30, Ad ♂	Mo	plot 8.6	40.0	158-33		

May, Pitmegea River

No.	Sp	trap site	wt	TL / T	testis / wt	ep ± / vplug
31, Ad ♂	Mo	plot 2.8	40.0	147-28	8.5	+
32, Ad ♂	Mo	plot 3.8	50.2	163-32	8.0	+
33, Ad ♂	Mo	plot 8.4	47.3 ~~55.0~~	165-34	8.0	+
34, Ad ♂	Mo	spot trap	55.0	182-42	7.0	+

35, Ad ♀ Calcarius wt = 29.5, moderate fat, oviduct 8.5 mm, largest foll. 10 mm

36, Ad ♀ " " " wt = 21.0, no fat, largest foll. 1.5 mm.

37, Ad ♂ " " " wt = 26.5, no fat, testis = 12 x 6

38, Ad, ♂ Erolia mauri wt = 25.1, mod. fat, testis = 4.5 x 3.5

May, Peters Lake, Brooks Range

No.	Sp	trap site	wt	TL / T	testis / wt	ep ± / vplug	Br / gap	Emb	Scars	Lact
39, Ad ♀	Mm	Shrike caught	37.5	140-26	2.0	0	Br	7(4/3) 7 mm	0	0

40 Ad ♂ Erolia bairdii, west side lake, wt = 35.4, mod. fat, testis 6 x 5 - assoc with # 46

41 Ad ♀ " " wt = 47.6, mod-heavy fat, oviduct 8 mm, largest foll. 15 mm.

42 1 June Peters Eremophila alpestris wt = 38.0, mod-heavy fat - oviduct 5 mm, largest foll. 6.0

43 Ad ♂ Asio flammeus, wt = 286 moderate fat, testis 18 x 7

June, Peters - Schrader Lakes

44 Ad ♀ Leucosticte tephrocotis, high pass west side Peters, wt = 25.4, light fat, largest foll 1.0 - oviduct <1.0

45 Ad ♂ " " high pass, west side Peters, wt = 26.0, light fat, testis 9 x 6

46 Sayornis saya. Whistler Cr bottom, wt = 23.6

47 A ♂ Erolia minutilla whistler Cr bottom, wt = 17.2, light fat, yellowish legs & feet, testis 4 x 3

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Specimen Register

4 June Peters - Schrader Lakes

#		sp	trap site	wt	TL / T	testis UH	ep ± / vplug	Br / gup	Emb	Scars	Lact
[skeleton to Cade] 48	Ad ♂	Mo	"Buteo" Creek	41.0	152-32	7.0	+				

June, Peters - Schrader Lakes

[skeleton - Cade] 49	Ad ♂	Mm	shrike caught	38.5	153-25	11x7	+				

[...] 50 — Calcarius lapponicus, shrike caught, w. side Peters, wt = 23.6, mod fat, largest foll. 2.0, oviduct = 5-6 mm - recently ovulated

[...-Cade] 51 — Anthus spinoletta, same as above, wt = 24.3, mod-heavy fat, largest foll. 10.0, oviduct 10.0 - ovulated?

[...-Cade] 52 Ad ♂ — Eremophila alpestris, fen by camp, wt = 38.7, light fat, testis 9x5

June Peters - Schrader - Carnivore Creek

53 Ad ♂ — Leucosticte tephrocotis, wt = 27.5, moderate fat, testis = 9x6

54 Ad ♀ — Heteroscelus incanum, wt = 148.3, mod-heavy fat, largest foll. broken, next largest 18 mm - oviduct 18 mm - one foll. shed?

[...] 55 Ad ♂ — Erolia minutilla, wt = 19.5, light fat, testis 6x4

[skeleton] 56 Ad ♂ — Erolia melanotos, wt = 94.8, light fat except heavy on neck, testis 13x7

57 Ad ♀ — Lobipes lobatus, wt = 23.5, no fat, emaciated breast, largest foll. = 4.0, oviduct = 5.0

58 Ad ♀ — Charadrius semipalmatus, wt = 59.4, mod fat - foll = 20.0 - ruptured site, oviduct - oviduct = 15.0

59 Ad ♂ — Charadrius semipalmatus, wt = 44.5, mod fat, testis 8x3

60 Ad ♂ — Ereunetes pusillus, wt = 22.0, light fat, testis = 8x3

June Peters - Schrader Lakes

61 Ad ♂ — Calcarius pictus, wt = 25.6, very light fat, testis 16x8

62 Ad ♀ — Plectrophenax nivalis, wt = 37.7, moderate fat, largest foll. 3.0, oviduct 10.0, large brood patch

63 Ad ♀ — Oenanthe oenanthe, wt = 28.6, moderate fat, egg broken in oviduct, oviduct = 12.0

64 Ad ♂ — Oenanthe oenanthe, wt = 26.7, light fat, testis 8x6

June Peters - Schrader Lakes

65 Ad ♂ — Pluvialis dominica - on polygonized fen, S. Schrader, wt = 131.5, mod. fat, testis 18x5, mate of # 66

66 Ad ♀ — Pluvialis dominica - same as above, wt = 178.5, heavy fat, largest foll = 24, oviduct = 18 - 1 or 2 already ovulated

67 Ad ♂ — Arenaria interpres - mouth of Whistler Creek, wt = 110.0, moderate fat, testis 11x5 - 2 brood patches 40x25, vascular fat under skin

68 Ad ♀ — Motacilla flava - mouth of Whistler Creek, wt = 15.3, light fat, largest foll = 3.0, oviduct = 1.0

69 Ad ♂ — Calcarius pictus - grass meadow between lakes, wt = 28.5, mod fat, testis = 16x8

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1959

Specimen Register

June, Peters-Schrader L.

	Sp	trap site	wt	TL / T	testis / UH	ept / V plug	Br gap	Emb	Scars	Lact

70 Ad ♂ — *Ereunetes pusilla*, near mouth Carnivore Cr, wt = 21.2, mod. fat, testis = 8x4.

June Peters-Schrader Lakes

71 Ad ♀ — Lobipes lobatus, wt = 37.2, light fat, oviduct = 5mm, largest foll = 4.0

72 Ad ♂ — Lobipes lobatus, wt = 28.6, light fat, testis 11 x 5

73 — Lobipes lobatus, wt = 31.0, mod. fat, testis 8 x 5.

June Peters-Schrader L.

74 Ad ♂ — Calcarius lapponicus

75 fledgling, juv? — Eremophila alpestris, wt = 20.2, fluttering on ground - not able to fly - (alcoholic specimen)

76 Fledgling — Acanthis hornemanni, wt = 3.0; (alcoholic specimen)

77 " — " ", wt = 2.3 (alcoholic)

78 " — " ", wt = 1.7 (alcoholic)

79 " — " ", wt = 1.3 (alcoholic)

(77–79: from one brood, 2-3 days old)

80 * — *Lanius excubitor*, wt = 3.2, unhatched embryo - ca 1-2 days from hatching, alcoholic

81 — Lanius excubitor, wt = 2.7, unhatched embryo - 3 days from hatching?

	Sp	trap site	wt	TL / T	testis / UH	ept / V plug	Br gap	Emb	Scars	Lact
82 Ad ♂	Lem	between lakes	55.0	130	9.0	+				
83 Ad ♂	Mo	"	46.7	150, 38						
84 Ad ♀	Mo	"	40.0	160-32	3.0	0	gap	10(6/4) 10mm	0	0

June Peters-Schrader - between the lakes

85 Ad ♀ — Erolia minutilla, wt = 33.3, light-mod fat, fully formed egg with shell in oviduct - last of set? (next foll = 6.0) oviduct & brood patch 20x10

86 Ad ♀ — Larus canus, wt = 341g, light fat, oviduct = 4.0, largest foll = 3.0

June Peters-Schrader - Carnivore Creek

87 Ad ♀ — Eremophila alpestris, wt = 39.0, mod. fat, large continuous brood patch 45 x 25, oviduct 1.5, largest foll. = 2.0

88 Ad ♂ — Leucosticte, wt = 28.6, mod. fat, testis 7 x 6.

89 Ad ♀ — Phalaropus fulicarius, wt = 41.0, no fat, oviduct = < 1.0, largest foll = 1.5

90 — Lanius excubitor, wt = 3.7, unhatched embryo of egg #6

91 — " ", wt = 3.7, unhatched embryo of egg #2

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Specimen Register

3 June Petus Schrader									
#92	Lanius excubitor	wt = 2.5 (unhatched emb of egg #5)							
93	"	"	wt = 3.8 (unhatched emb of egg #2) - yolk all gone in egg						
94 SA ♀	Mo	25.8	190-24	2.0	0	gap	7(5/2) 8mm	0	0
95 SA ♂	Mo	31.6	145-26	7.0	+				
June, Umiat, Alaska									
96 Ad ♂	Erolia melanotos, wt = 93.1 light fat, except heavy on neck testis = 12 x 7.5								
97 Ad ♂	Limnodromus scolopaceus, wt = 103, mod-heavy fat testis = 8 x 4								
June, Umiat									
98 Ad ♂	Lem	1-8.0	56.5	150	11.0	+			
99 Ad ♂	Di	3-9.2	38.5	121	9.0	+			
21 June Umiat									
100, Ad ♂	Mo	7-1.2	60.0	170-30	9.5	+			
101, SA ♂	Lem	1-5.0	35.6	122	9.0	+			
102, Ad ♀	Calcarius lapponicus, wt = 26.2, mod. fat, oviduct 3.0, largest foll = 1.0 large brood patch								
103, Ad ♀	Calcarius lapponicus, wt = 22.2, light fat, oviduct 2.0, largest foll = 2.0. large brood patch								
June, Umiat									
104 Ad ♂	Motacilla flava, wt = 15.4, mod. fat, testis 5x4,								
105 Ad ♂	Lem	7-2.8	45.5	136	9.0	+			
106 SA ♂	Lem	1-8.0	37.1	130	10.0	+			
107 SA ♀	Lem	1-10.0	31.2	120	3.0	gap	7(4/3) 10mm	0	0
June, Umiat									
108 Ad ♂	Mm	10-0.8	47.2	153-24	13.0	+			
109 Ad ♀	Mm	10-3.8	43.5	153-28	4.0	gap	0	9(4/5)	Lact +
110 Ad ♂	Mm	10-6.4	52.5	153-25	11.0	+			
111 Ad ♀	Mm	10-6.6	46.4	150-25	3.0	gap	11(4/5) 11mm	0	+
112 Ad ♀	Mm	10-9.8	37.2	152-23	3.0	gap	12(7/5) 8mm	0	0

36,3
54,4-

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Specimen Register

24 June, Umiat

No.		Sp	trap site	wt	TL / T	Hf / testis milky	V plug / ep ±	Emb	Scars	Lact	Br / gap	
3	Juv ♀ ~~Ad ♂~~	Mm	10-0.4	10.0	98-15	1.5	v gaping	0	0	0	Br	
14	Juv ~~Ad~~ ♂	Mm	10-0.6	11.5	101-15	5.5	—					
15	Ad ♀	Mm	10-1.0	58.4	153-21	3.0	0	12(6/6) 13mm	0	0	gap	
6	Juv ♀	Mm	10-1.0	11.7	98-16	2.0 milky	v gaping	0	0	0	gap	
7	Ad ♂	Mm	10-3.0	58.5	158-25	12.0	+					
8	Ad ♂	Mm	10-9.0	55.6	160-25	11.0	+					
9	Ad ♀	Mm	10-4.6	44.6	152-22	2.0	0	10(3/7) 5mm	indist. +	+	gap	
20	Ad ♀	Mm	10-3.8	53.1	146-23	5.0	0	10(4/6) 18mm	0	fat + pres	gap	
21	Ad ♂	Mm	10-6.6	34.5	144-23	10.0	+					
122	Ad ♂	Spizella arborea	wt = 18.6, light fat testis 10.5x7									
123	Ad ♀	Zonotrichia leucophreys	wt = 22.8, light fat, oviduct = 1.5, largest foll = 1.5 large brood patch.									
124	Ad ♂	Zonotrichia leucophreys	wt = 25.7, light fat, testis 12x8									

June, Umiat

No.		Sp	trap site	wt	TL / T	Hf / testis	V plug / ep ±	Emb	Scars	Lact	Br / gap	
5	Juv ♀	Cle	2-7.0	10.0	90-18	1.0	v closed	0	0	0	Br	stomach full of old blueberries
6	Ad ♂	Mm	10-4.4	40.0	140-22	11.0	+					
7	Ad ♂	Mm	10-5.2	51.2	158-24	10.0	+					
8	Ad ♀	Acanthis hornemanni	wt = 13.4 light fat, oviduct = 2.0, largest foll = 2.0 large brood patch - fed fledged young - larvae in crop									
9	Ad ~~♀~~ ♂	Acanthis hornemanni	wt = 14.2, light fat - testis 6x5 - no red on breast or rump - looked ♀									
0	Ad ♂	Spizella arborea	wt = 16.8, light fat testis 10x8									
1	Ad ♂	Spizella arborea	wt = 16.1, light fat testis 10x8									
2	Ad ♀	Spizella arborea	wt = 16.5, light fat oviduct = 1.0 largest foll = 1.5 brood patch									
33	Ad ♂	Mm	10-1.0	49.0	155-25	10.5	+					
134	Juv ♀	Mm	10-1.0	15.7	110-17	2.0	v gaping	6(2/4) 1mm	0	0	Br	

26 June Umiat

No.		Sp	trap site	wt	TL / T	Hf / testis	V plug / ep ±	Emb	Scars	Lact	Br / gap	
135	SA ♂	Lem	8-4.6	45.6	135	9.0	+					
136	Ad ♂	Zonotrichia leucophreys	wt = 25.1, light fat testis = 9x7									

T. Cade
1959

Specimen Register

e June, Umiat

		Sp	trap site	wt	TL / T	Ut / testis	Vplug / ept	Emb	Scars	Lact	Br / gap
37	Ad ♂	Motacilla flava, wt = 14.5, light fat						testis = 4 x 3			
38	Ad ?	Motacilla flava, wt = 14.5, light fat - gonads destroyed									
39	Ad ♀	Passerculus sandwichensis, wt = 17.8, light fat, oviduct - 1.0, largest foll = 1.0 large brood patch.									

June, Umiat

		Sp	trap site	wt	TL / T	Ut / testis	Vplug / ept	Emb	Scars	Lact	Br / gap
40	Juv ♀	Cle	4-1.0	11.0	108-23		✓ gaping				
41	Ad ♂	Mo	4-3.6	57.0	170-31	8.0	+	gut = greens			
42	Ad ♂	Lem	4-3.8	53.0	143	11.0	+	gut = greens			
43	Ad ♂	Passerculus sandwichensis, wt = 18.8, light fat testis = 10 x 8									
44	Ad ♂	Mo	4-1.0	40.0	155-31	7.0	+	gut = berries & greens			
145	Ad ♀	Mo	4-1.8	64.4	170-35	4.0	0	9(3/6) 23mm	0	0	gap gut = greens
146	Ad ♂	Mo	4-4.8	54.5	172-35	8.0	+	gut full of green matter & seeds?			
147	Ad ♂	Mm	9-2.0	52.7	140-25	11.5	+	stomach full of berries			
148	Ad ♂	Cle	9-7.6	24.8	138-30	11.5	+	gut = berries			
149	Ad ♂	Acanthis, wt = 12.8, light fat						testis 6 x 5			
150	Ad ♂	Acanthis, wt = 13.0, light fat						testis = 7 x 6			
151	Ad ♂	Cle	9-5.4	22.2	135-28	11.0	+				

June, Umiat

		Sp	trap site	wt	TL / T	Ut / testis	Vplug / ept	Emb	Scars	Lact	Br / gap
152	SA ♂	Lem	4-3.4	30.0	127 ~~7.0~~	9.0	+				
153	Ad ♂	Cle	4-10.0	22.1	133-28	11.0	+				
154	Ad ♀	Passerculus sandwichensis wt = 16.8, light fat largest foll = 1.0 oviduct = <1.0									
155	Ad ♂	Mo	4-0.4	60.2	? ~~[illegible]~~	8.0 *	+	wt	TL	~~testis~~	ep
156	Ad ♂	Mo	4-2.8	~~33.4~~	~~150-32~~	~~7.0~~	~~-~~	64.4	175-32	8.0	+
157	Ad ♀	Mo	4-4.4	35.2	155-34	3.0	0	7(3/4) 11mm	0	0	gap
158	SA ♂	Mm	4-0.8	26.5	9? ~~[illegible]~~	9.0	+				
159	SA ♂	Mo	9-1.2	33.4	150-32	7.0	-				
160	Juv ♂	Mo	9-3.2	12.8	110-20	6.0	-				

Specimen Register

28 June cont

		Sp	trap site	wt	TL / T	UH / testis	V+/Vg ept	Emb	Scars	Lact	Br / gap
161	Juv ♀	Mo	9-4.8	16.4	111-19	milky 2.0	V gaping	0	0	0	Br
June, Umiat											
2	Ad ♂	Lem	4-2.0	40.7	135	9.0	+				
3	Ad ♂	Lem	4-2.2	43.5	135	9.5	+				
4	Ad ♂	Mo	4-3.6	46.0	158-32	8.0	+				
65	Juv ♂	Cle	4-3.8	15.0	114-21	8.0	+				
66	Juv ♂	Cle	4-4.0	15.0	119-23	9.0	+				
67	Ad ♂	Mo	6-0.4	52.0	170-38	6.5	+	specimen not saved			
68	Ad ♂	Mo	6-4.8	57.0	170-35	6.5	+				
169	Juv ♂	Mo	6-5.2	14.5	110-25	4.5	−	~~Specimen~~			
170	Juv ♀	Mo	6-4.0	11.5	106-22	milky 1.0	V gaping	6	0	0	Br
171	Ad ♂	Cle	9-7.6	25.1	136-30	10.0	+				
July, Umiat											
172	~~Ad~~ ♀	Mo	5-7.8	16.3	119-24	milky 2.0	V gaping	0	0	0	Br
173	Ad ♂	Lem	5-9.8	50.0	134	11.0	+				
174	Ad ♂	Lem	5-3.0	~~53.~~ 43.9	135	10.5	+				
July Umiat											
175	Ad ♂	Clangula hyemalis. wt =									
176	Ad ♀	Clangula hyemalis. wt = 552 gm									
July, Umiat											
177	Ad ♂	Lem	5-3.4	41.3	130	11.0	+				
178	Ad ♂	Lem	5-4.8	37.6	131	11.0	+				

T. Cade
1956-1959

Alaska

Journal

1956 incl. Weather Phenology Section
1957
1958 Mist Net Records
1959

Cade
1956

General Account

11 June Boarded southbound Wien DC-3, flight 345, about 2430. Arrived Umiat about 0200, and was met by the Wien radio and maintenance personnel. There are three or four of them stationed at Umiat. They put me up for the night in their bunk house, but before retiring I took a walk about the deserted camp and out along the weasel road at the west end of "Umiat Avenue." Also examined the ARL hut for possible use as headquarters. It did not appear as satisfactory as the smaller U. S. G. S. hut, so I chose the latter, with permission of "Dusty", who appears to be in charge of the Wien outfit. He seems to think he owns Umiat. Went to bed about 0330 and got up at 1015. Spent the rest of morning and early afternoon getting my gear set up in the USGS hut and cleaning it out. Whoever used it last left it in a terrible mess. But they were kind enough to leave Esquire's large picture of Anita Ekberg tacked to the wall.

About 1600 I went out to locate some of the plover transects. Found T-4 with little trouble. The hundred foot intervals are marked with tent stakes, the intermediate ones with white rags tied to vegetation. About half of this line is inundated with 6 in.

Cade
1956

General Account

11 June cont- to 1 foot of water or is still covered with snow.

Stopped by at 1800 to have dinner with the Wien men and with the mechanic who had been here several days before me to fix the weasel for ARL. He finished this morning and turned the weasel over to me at noon. It seems to be in good working order.

Started out at 1930, after dinner, to look for T-6. Never could locate any markers, but I am sure I found the right area. Even found an old museum special along side the drainage ditch mentioned by Hansen. Apparently he did not mark this line. His notes do not indicate. This line is clear of snow with only a little water present. It can be trapped any time.

Also located T-8 and T-2. T-8 is marked with white rags tied to alder branches. Most of the ground is still covered with 6 inches to 2 feet of snow. T-2 is completely exposed with only a little standing water. It is a clearly marked line with iron posts and wooden stakes.

Returned to camp at 2300.

I am not sure yet, but my first impression is that the numbers of passerines and shore birds is considerably less than in 1952, with exception of yellow wagtail, gray-cheeked thrush, and semi-palmated sandpiper. But I have not looked much.

T. Cade
1956

General Account

11 June cont- Redpolls, for instance, do not seem abundant, neither do longspurs. I did not see a tree sparrow all day long, nor a robin, or white-crowned sparrow. I have not seen or heard a snipe. These were all very conspicuous in '52.

12 June Got up at 1000 and fixed breakfast. Went out at 1100 to locate the other three trap lines. Got across Sea Bee Creek at west end of air field with no difficulty. The water is high, and I had to float the weasel a few feet in midstream.

Found T-5 about 1200. It is marked by tent stakes. I tied red rags to some of the 100 foot interval markers. from 600 ft on to end, this line is covered by a bank of snow. I took a photo of it from the beginning stake looking down the line.

Located T-7, which is all clear of snow and with no large puddles of melt water. It is marked by tent stakes also. I put red rags on some of them and took a photo at stake 0.

Then went up the hill to find T-3. Had a hard time locating it. Wandered around in weasel clear to top of the high ridge which separates headwaters of Sea Bee and Bearpaw Creeks. Found good place for additional plot. Returning down hill, I accidently came upon the marker for T-3. It is well marked with tent stakes and smaller sticks. Some

Cade
1956

General Account

12 June — of the latter have been broken or bent over, perhaps by movement of snow, as the line is on a rounded ridge that probably gets a lot of wind. It is completely free of snow and is the driest of the 7 transects. I marked some of the 100 ft stakes with red rags and took a photo from the middle looking toward the beginning point.

While returning, just before I got to the air strip, something happened to the brake on the left track of the weasel, and I had to drive it in the rest of the way with no control over the left side. Will try to fix it in the morning. Got back to hut at 1900. Ate dinner, prepared specimens and wrote up notes in the evening.

Caught two lemmings by hand in the area near T-5.

13 June — Retired at 0100 and got up at 0900. Fixed breakfast and then went out on a trip to Umiat Mt. Could not get weasel across Bearpaw Cr., so parked at foot of hill and walked the rest of the way. Returning to camp about 1830, I crossed a patch of snow I had used earlier to by-pass a ditch in the road, and the weasel fell through into a small drainage. It got wedged in between snow banks forward and back and would not budge. It was about a mile out of camp, so I hiked in for help. Had to wade bare-footed and pant less across Sea Bee Cr. Cold experience. Ate dinner with

Cade
956

General Account

13 June the Wien crew. Good bunch of guys despite rumor. Afterward Ben and I took the 6x6 truck out to the weasel to pull it out. We had a lot of trouble. The weasel had leaked and was full of water up to the floor board. The fan was splashing water all over the place. We bailed out enough water to clear the fan and drive shaft. The truck could not pull the weasel forward. Finally we jerked it sidewise, and after several tries, shoveling, etc. we got it out. It looked like a drenched rat. I drained out the water and brought it in without further mishap.

14 June Retired at 0130 and got up at 0930. Spent the morning and early afternoon writing up notes and cleaning out the weasel from yesterday's melee. Got gear ready for trapping. Found the battery was not charged enough to start weasel. Had to get one of Wien men to tow me to get motor started. Let it run so generator could charge battery the rest of the afternoon. At 1900 went out and set traps on T 6 and T 4. Back at 2300. Fixed late dinner.

15 June Retired at 0100 and got up at 0900. Ran the trap lines, came back and fixed breakfast, and spent the afternoon skinning specimens. 1630 went out west of camp and set 12 traps by four leaf nests at the base of willows. The area (heath shoal) is riddled with well-used runways. It looks like it might be good for a transect.

T. Cade
1956

General Account

15 June Ran the traps again in the evening, and after a late dinner, skinned some more.

16 June Sat up reading until late - retired at 0445 and got up at 0900. One of the Wien men brought up my two Kalamazoo boats and a pressure cooker, which arrived on plane last "night." Ran the transects, and after late breakfast, spent the afternoon skinning. Ran traps again in the evening, ate late dinner, and skinned some more.

17 June Retired at 0100 and got up at 0930. Ran traps, ate breakfast, and spent early afternoon writing up notes of last two days. Took down vegetational and topographic details of T-4 & T-6 during this morning's runs. In the evening, I took up the traps on T-4 & T6.

18 June Retired at 2400 & got up at 0930. Spent rest of morning and early afternoon getting a rig together for sampling forage utilization. Made a test run of 15 samples on the strip of heath west of ARL hut where M. miurus occurs. Did not get any positive evidence of foraging.

In the evening I set out traps on T2 and T8, and while at T2 went over by the oil well to see if the peregrines were still there. They were. Got back late and had dinner.

19 June Retired at 0330 and got up at 1000. Immediately ran trap lines, had breakfast at 1300, and spent afternoon skinning and writing notes.

Cade
1956

General Account

19 June — Ran lines again in the evening, and after supper read a-while, wrote letters and notes.

20 June — Retired about 0200 and got up at 0900. Ran the trap lines, then had breakfast. Prepared specimens and worked on the weasel in the afternoon. One of the boogie wheels has slipped its rubber casing, and I tried to straighten it back on, but it would not stay. Will have to replace that wheel soon. Ran the lines again in the evening. Spent part of the evening with Wien boys - getting gas for the weasel and oil for heating my hut.

21 June — Retired at 0345 and got up at 0930. Ran the traps, ate, skinned and wrote up notes in the afternoon. Picked up traps from T2 and T8 in the evening. Will put them out on T5 and T7. tomorrow.

22 June — Retired at 0330 and got up at 1100. Spent early afternoon skinning and writing up notes. At 1700 went out to T5. Found the last 300 feet still covered by a snow bank, so changed plans, and went up on the hill to T3 and set out traps. Then established a new line (T1) farther in from T3 - in a swale between the forks of a small drainage system. The ground cover is essentially the same as T3 except that there are scattered alders 1½-2 feet high occurring along most of the line.

T. Cade
1956

General Account

23 June Umiat, Alaska - Retired at 0230 and got up at 0945. Ran the trap lines between 1000 and 1230. Skinned specimens in the afternoon, and then ran traps again between 1830 and 2100. Skinned some more and wrote notes in the evening.

24 June Retired at 0100, up at 0900. Ran trap lines in late morning, cleaned up hut, washed cloths and worked on the weasel in afternoon. Ran traps again in the evening. Ben went with me and shot a caribou. They have been moving along the ridge in small groups the last few days.

25 June Greeted Shanks, John Kovaruda and their party at 0145. They are headed out to the Sagavanirktok River to botanize. Helped them with their gear and lodging for the "night." Andy, the pilot from Bettles, flew them over in 3 trips. Ran the traps in the late morning. Skinned in the afternoon and wrote up notes. Had telegram from Webster saying he would arrive Anchorage today. Don't know what gives with Air Force support. Ran T1 + T3 for the final time in the evening and took up the traps. Skinned some more in the late evening.

26 June Retired at 0030 and got up at 0900. Set out traps on T7 in the late morning. Could not find the last 100 ft of this line. Wrote up notes in the afternoon,

Cade
1956

General Account

26 June — helped load some C rations on a plane for ARL, and took care of the wounded jaeger. Ran traps again in the evening and retired 2230.

27 June — Up at 0700, fixed breakfast, and then ran traps. In early afternoon carried out a forage utilization sample along T4. Ran T7 again in the evening and skinned.

28 June — Retired at 0030 and up at 0930. Ran T7 in the morning, and in afternoon went over to T2 and up along the ridge by the oil well looking for birds. Back to camp - cleaned up weasel and greased the tracks. Ran T7 again in the evening and skinned. Wrote up notes.

29 June — Retired at 0100 and up at 0900. Took up the traps on T7 and prepared final specimens. Spent rest of day getting gear ready for the river trip. An Air Force C-47 brought Hal Webster in from Fairbanks around 2300. He will accompany Ben Zeller and me on the river as representative of the Air Force Academy to get some gyrfalcons for mascots.

30 June — To bed around 0330 and up at 1200. Dusty came up to tell us that Andy Anderson would soon be here from Bettles with a Cessna 180 on floats to take us up river. (We had not expected him until very late in the evening.) Much rushing around to get all the gear down to the slough where the float planes land.

[?] Cade
1956

General Account

30 June

Oolamnagavik

[?]it. at ca. [?]33'W, 68°32'N

[?]tern branch [?] river.

<u>Note</u>: the account of the next five and 1/2 days is reconstructed from notes taken under the assumption that we had been landed on the Colville, approx. 13 mi. above the mouth of the Etivluk. Subsequently it proved that we had in fact been landed on the upper ~~Killik~~, and by retracing our steps we are able to fix the spot as a small lake ca. 5 miles up the ~~Killik~~ Oolamnagavik from its confluence with ~~Carter Creek~~ a large tributary. How a bush pilot could fly this trip up and back to Umiat twice without discovering the error is beyond me.

Andy, the Wien pilot at Bettles, came in to Umiat about 1230 to take us up river. I went up on the first haul to establish the landing point. On the way we saw half a dozen moose and one grizzly bear in the river bottom. Flew close by several falcon bluffs but did not see any birds. We landed on a small lake ~~between~~ on the upper ~~Killik River~~ Oolamnagavik ~~and Carter Creek~~, about 40-45 river miles up from the Colville ~~one mile from the former and ca 5 miles above the mouth of the latter~~. On the second trip Andy brought up Ben Meller, Hal Webster and the rest of the gear. The remainder of the day was spent packing the stuff over to the river. We have about 700 lbs of duffle etc. We were finally established in a camp across the river on a gravel bar around 2000.

T. Cade
1956

General Account

30 June While waiting for the rest of the party, I scouted the near by bluffs. Put out a gyr falcon and one rough-leg, and on the upper brink found a den of red foxes. Saw both adults at very close range and one pup, which came out of a hole to get some food one of the adults had just dropped. One of the adults kept barking at me, retreating and then advancing again - sometimes as close as 20 feet. The other stood off at a distance. The burrow seemed to be an enlargement of an old ground squirrel system.

We fixed a meal and retired about 2400. One of the wire braces for the bow of one of the Kalamazoos is missing, but I guess we can improvise. The mountain tents prove to be excellent mosquito protection, but do not look like much for rain.

1 July Spent morning getting the Kalamazoos (10 footers) ready for travel and looking over the gyr aerie. Took a picture of it and one of two young gyrs on Web's coat. We shoved off about 1200, Web and I in one boat, Ben and most of gear in the other, but we made poor time because of the low water - having to line the boats over gravel bars many times. Both boats were taking in too much water to stay afloat by late afternoon, so we made camp at 1800. The boat Web and I were in had 11 tears in it - some 4-5 inches long - all of them where the ribs stretch the canvas most taut.

Cade
1956

General Account

1 July — Ben's boat, lighter loaded, had 6 smaller tears in the same areas.
We camped on a high gravel aluvium overgrown with moss and heath and large willows. Good ground for camping. Location on right side of river about ~~1 mi above Easter Creek~~. 5 miles below starting point.

2 July — Left camp #2 at 0900, Ben and I taking the boats while Web walked over land. Made slow time again with both boats leaking badly despite our patching of yesterday. Had to stop every 10-15 min. to bail out the water. We passed a large creek coming in on the right about 1500, went another 4-5 miles and ~~made~~ camp #3 about 20 miles above the ~~Okpik creek~~ Colville R. Web is bushed from the hike. We made about 15 miles today. Web killed an adult ♂ lynx just below the large creek mentioned above. We are using it as food for ourselves and the falcons. The meat is very light - like rabbit.
Birds seen so far include:
Gavia stellata - 1 on the river
Branta canadensis - on gravel bars - no nests yet
Clangula hyemalis - on lakes by river
Charadrius hiaticula - on gravel bars
Actitis macularia - common on gravel bars
Lobipes lobatus - flying along river
Larus hyperboreus

T. Cade
1956

General Account

2 July Stercorarius parasiticus - several seen inland by Web
Falco rusticolus
Falco peregrinus
Buteo lagopus
Lagopus lagopus
Motacilla flava
Oenanthe oenanthe
Phylloscopus borealis
Turdus migratorius
Hylocichla minima
Passerella iliaca
Zonotrichia leucophrys - common
Spizella arborea
Acanthis spp.
Calcarius lapponicus

4 July Left camp #3 at 2200 and travelled for 10 hours. River does not improve much for travel. Web still walking. Got into some fast, white water, and Ben's boat capsized twice, sinking each time. The first time, he was behind me, and I was able to gather up all the floating gear. All we lost were some canned goods & some C-rations. Second time he was ahead of me, and we lost every thing that got out of the boat - some more food, a tent, paddle, hatchet, and some other items. His rifle stayed with the boat, and I was able

Birds seen on 5 July -

Actitis macularia - six to eight seen on gravel bars along river - more common here than ringed plover

Lagopus mutus - ♂ in summer dress seen on upland tundra back of camp #4

Aquila chrysaetos - one seen soaring over peregrine aerie #2

Ursus - Ben and I saw a big grizzly about 4 miles below camp # 3 on 4 July and later Web saw another.

Cade
1956

General Account

4 July to locate his pistol and cartridge belt in 3 feet of water some 20 yds below the accident, and they were recovered. Also lost was most of our cooking unit. A couple of the pots were found a mile or so down river. I had a second, light paddle which Ben could use. He had it for only 10-15 minutes when the blade snapped right off the handle, so he had to pole and line his boat the rest of the day. Wind came up, and weather turned bad, so we put ashore on a gravel bar at our next meeting with Web. We put everything out to dry off, ate, and sacked out about 1200.

5 July Got up at 1000 after 22 hours of wind and rain. Sun came out enough to dry things off. Spent miserable night under one of the boats. Wind blew the rain right under. After breakfast, Ben set to work repairing the canoe paddle while Web and I went hunting groundsquirrels for the falcons. We departed this camp at 1430, with Web still walking but soon the water got better, and with our lightened load, he was able to ride with Ben. Weather was good, so we traveled right on through the "night".

6 July Hit the mouth of the Ok~~pikruak River~~ lower Itkillik Tav about 0030, and the travelling improved much more, but Ben's boat is still leaking badly, with no

6 July – at mouth of the lower tributary of Oolamnagavik a nest of *Larus hyperboreus* was found – on a gravel mound in middle of a large gravel bar. Mound about 5 feet high & 6 ft in diameter. Nest, a depression in gravel with some vegetable debris, had one recently hatched young and two pipped eggs.

T. Cade
1956

General Account

6 July

more patching dope. About 0200 we arrived at the "hill of 9 faces" and found a second gyr aerie with 3 advanced young - all tiercels. Continued on for another 20 miles and made a temporary rest camp on a gravel bar. While we were fixing some tea and warming up around a wood fire, two moose came up on the opposite side of the river and stopped to look at us ca 100 yds off. Since our food was just about gone (and at that time I hadn't the vaguest notion where we were) I consented to Ben's shooting one of the animals - a yearling - for food. We took as much of the meat as we could safely carry in the boats - ca 60 lbs & left the rest for the wolves. We each ate a couple of pounds of meat before leaving that camp. We continued on around 0700, and arrived at the Colville Bar, mouth of ~~Killik~~ Olamnagavik, before noon. We looked at bluffs above the ~~Killik~~ Olamnagavik on the Colville, and ~~then~~ continued down river for ~~about 10 miles~~ and made camp #5 at 1700 ca 1/2 mile below the Killik. The weather had turned bad again and it was raining before we made camp, so we had to set up a wet camp, which was far from comfortable. Also the mosquitoes were very bad.

T. Cade
1956

General Account

7 July Got up at 1200 after almost continuous rain since arriving at camp #5. Still cloudy but things are drying out somewhat. Made some futile attempts to patch Ben's boat. Mine is not leaking so badly, but Web has to bail constantly while they travel to keep the other boat afloat. Left camp #5 at 1630 - sky still grey and with some wind. Will try to travel straight on in to Umiat from here.

8 July Stopped at a gyr aerie ca 1/2 mile below the cliff with the double ridge, where gyrs nested in '52. Took two fine, large eyass falcons and continued. Stopped to eat and rest at 1000 and resumed travel around 1300. Light drizzle all the rest of the way in. We arrived at Umiat about 2300.

9 July Spent the day resting up from the trip and getting gear and boats put away. Helped Web make a cadge to carry his falcons back on. He will take 4 with him, and I am keeping 3 to take out later. I am keeping the two youngest birds and one of the falcons from the last aerie.

10 July The Air Force came in from Ladd around 1500 to pick up Web. I helped him get his duffle and the birds ready and saw him off at 1600.

T. Cade
1956

General Account

11 July Spent most of the day working over the weasel. Greased all the wheels and carriage. Changed oil and fueled her up. Battery had run down, so I left the motor running for several hours to charge it up. Ben helped me change two boggies on the left side. One was broken while I was away.

12 July Spent the morning looking over an area West of ARL hut to establish a new transect and then set up the stakes and markers for it. This line runs through the area where I have trapped several M. miurus and where their nests are very numerous. In the afternoon, some USGS people came in on a widgeon to establish a camp for a party of 10 which will be moving in in the next few days. They needed some help transporting their gear from the field - also from the lagoon where they have a Cessna 180 on floats - and since I am using their weasel, I offered my help. In the late afternoon I set out traps on T5. Between stakes 800 & 900 & between 900 & 1000, there were 5 instead of 4 20 foot markers!

T. Cade

General Account

13 July Up at 0900 and ran traps on T5. Skinned the rest of morning and wrote up notes in afternoon and went hunting meat for the hawks. In the evening set out traps on T9 and ran T5 again. USGS still using the weasel to transport equipment and gear up from the lagoon. Retired at 1200.

14 July Up at 0900 and ran the trap lines. Skinned in the early afternoon. 5 hawks, Kavanda and the others from the Sagavanirktok party arrived between 1500 and 1800. We shot the breeze, and I had them over to my hut for dinner. Afterward, I ran the trap lines again, and skinned in the late evening.

15 July Up at 0900 (retired ca 0100) and ran the trap lines. Back and breakfast in my hut with the other ARL workers. We lingered over the meal. Kieth stepped out for something and came back in to report a "small" fire in the quarriset where they were staying. John Kovanda started through the door, when a blast of flames suddenly came forth. There was a strong westerly wind and this quickly whipped the fire into an unmanageable holocaust. We all grabbed fire extinguishers (CO_2 type) but could make no dent in the flames. Both of Umiat's fire-fighting wagons (CO_2 tanks) were brought into play but nothing had any effect.

T. Cade
1956

General Account

15 July
The fire was already beyond control when discovered. It was apparently caused by the oil stove which must have caught the wall on fire - or some of their plant specimens which were hanging near by to dry. With the wind blowing the quonset acted as a furnace for the fire inside and flames came barrelling out of the N.E end. They nearly caught another adjacent quonset on fire. We saved it by dashing buckets of water on the front. Even so, the wood got hot enough to smoke.
The group lost every thing they had on the trip including much expensive camera equipment. In my opinion something might have been saved if there had been a ready source of water to pump into the building at the early stage of the fire.
The ARL group left via Wien for Barrow on 1900. Ran the trap lines and took up traps on T5. Also set out Jap bird net in Sea Bee Creek and in couple of hours caught 6 small grayling - fed to the hawks.

16 July
Ran T9 in the morning, skinned, tended to hawks and gill net. Took up traps on T9 in evening and got a description of T5 on the spot. Wrote up notes. Raining all day - not much could be done outside.

17 July - Up at 1000. Ben and I reset the gill net and then went over to the hill near oil well.

T. Cade
1956

General Account

17 July - There I established T10 midway up on the steep slope between the upper terrace and the rolling hills back of Umiat. The line parallels a contour just below the rock outcrops west of the oil well. It is in what appears to be good M. miurus habitat.

On the way to this site - near NE end of Umiat Lake - the weasel threw its track on right side. It did not come all the way off - just slipped off the teeth on the back wheel. We left it as was, since we had no tools with us. Will return tomorrow with the other weasel and tools and try to pry the track back on.

Also set out 6 #1 steel traps on the rocky outcrops for ground squirrels. Walking in, we heard a fox howling on the hill. Kept it up for an hour or more. May be in one of the traps.

18 July - Spent morning writing up notes and skinning a downy pectoral sandpiper. Got 8 grayling out of the net for the hawks. Took the fine weasel out in the evening to run T10. Could not get any help today to take care of my weasel.

19 July - Retired at 0100 and up at 0600. Ben and I went out to get the weasel. We had no difficulty prizing the track back on. Ran the traps early and came back in. Spent rest of the morning and afternoon skinning yesterday's and today's catch. Ran the traps again in the late evening, tended fish net and did some hunting for the hawks.

20 July - Retired at 0430 and up at 1000. Ran trap

T. Cade
1956

General Account

20 July - line and then back to hut to skin and write up notes. Got a description of T10 and took photos of T10 and T9. Took up traps on T10 in the evening.
21 July - Spent morning skinning and writing up notes. Cleaned up weasel, drained it, and greased tracks in afternoon. One of the USGS helicopter pilots came in with the report that MacVicars had drowned yesterday in Chandler Lake. He had responded to the party's SOS signal. The other fellows are O.K. Apparently MacVicars and one other were crossing the lake in a Kalamazoo in rough weather when the boat capsized or was swamped. MacVicars did not make it to shore; the other fellow was in the water for 15 min. and nearly froze. Fifteen minutes is about as long as one can take the cold of that water. I radioed the information to Wiggins at Barrow.
22 July - Spent day writing up notes, cleaning up cabin, washing clothes and getting ready for trip to Saviovik River with Kovanda. John came through here from Fairbanks on his way to Barrow and was back with the return flight at 2400. We discussed plans for the trip to Saviovik R. Dr. Wiggins also came in with the 10th rescue people to get my Kalamazoo boats to take back to Chandler Lake.

Cade
956

General Account

23 July - Up at 1030 and Kavanda and I got our gear and food ready for the trip to the Sannaruk River, Andy came up from Bettles about 1300. First we flew up the Colville to determine where he had put us down on the previous trip. It turned out to be the Oolamnagavuk R. instead of the Killik as I had first thought. Andy was a bit embarrassed but readily admitted the mistake. We flew on up the Colville a little ways, seeing some moose and caribou and then turned back to the Killik. Flew up the Killik 40-50 miles, following up Okpikruak branch and then cut over to the drainage of the Chandler and down it to Umiat. Both Killik and Chandler have some extensive bluffs on them but especially the Chandler. Around the fork ca 20 mi N of castle Mt there are several miles of sandstone rim rock. Saw golden eagle, several rough legs - one on a nest and just below the forks we flew right over a gyr aerie - could see two fledged or near fledged young sitting on the ledge. Cliff over looked the river. Most of the sandstone "rims" are back from the river a little ways. Extremely interesting country.

We were back at Umiat around 1700, spent some time refueling and sending radio messages and then off to the Sannaruk R. Arrived at the lake at 2000 and found a floating mooring and remains of the Army site #5 - lots of C-rations canned foods and gas left. Andy ate steaks with us and left ca 2030. I spent next two hours looking for Hansen's 1955 transect but saw no sign of markers within a mile around N E end of lake. Conclude he did not set up a marked line (his notes do not indicate), so I established a new line in the habitat that he trapped. Two long-tailed jaegers are established in the area and several ravens have been seen "fleeing" on the tundra near by. Mostly they seem to be living at the refuse around the old camp. Mites all over every thing.

Birds seen: pair of Gavia arctica on lake
several Clangula hyemalis
" Sterna paradisaea
" Pluvialis dominica
ravens + jaegers
Lagopus lagopus heard several times

no heavy snowing clear here. ca 200'-300'

Cade
956

General Account - Sagavanirktok River

24 July - Up at 0800. Ran traps around 1000 and spent rest of morning & early afternoon skinning and writing up notes. Took photo of the transect and also two photos of trap sites with Lemmus & Dic. in the traps. Went down to the river with Rovanda in the afternoon and we looked around and collected some plants. Ran the transect again in the evening.

25 July - To bed ca 0100 and up at 0930. Ran the transect and spent rest of morning and early afternoon skinning and writing up notes.

- Several spotted sandpipers seen along the river.
- Four long-tailed jaegers flying over the transect in early morning. Ravens present locally at all times.

Helped Rovanda run his transect in the bottom land in the afternoon, and then ran my transect again after dinner. Around 2300 saw a wolf - big adult - about 60 yds below camp. Shot at him with .22, missed, and he ran to the river as fast as he could. Wolf tracks seen early along an old meander of the river and a skull of one was found by Rovanda. To bed at 2400. Saw several Am. Pipits along the river.

26 July - Up at 0800. Ran traps in morning, wrote up notes and helped Rovanda with his transects. We walked over to the uplands west of lake in the afternoon. Saw a gyrfalcon ca 100 yds S. of camp at edge of lake. It was carrying a mouse. Stopped on a tussock at bank of lake and began eating. As we approached it flew off and circled up and up over us. Several → times it bent its head down and bit the mouse in its talons. It drifted S into an area where two jaegers were flying. Suddenly a much smaller falcon (peregrine tiercel?) dived at the gyr from above. It continued stooping at the gyr for some 10 min. while I watched through binocs. Gyr seemed reluctant to flip over as usually do with the mouse in its talons. Both finally flew out of sight.

6 ♂ old squaws on the lake

♀ scaup and 3 drakes on the lake.

R saw six or so young ptarmigan - flying - below camp. I flushed 2 ♀♀ and one cock in vicinity of camp.

Several Acanthis hornemanni along river in willows.

Took up traps in the evening. Andy arrived about 2000, and we broke camp. Back at Umiat around 2330.

T. Cade
1956

General Account

27 July - Went out with Ben Yeller and a couple of USGS boys in my weasel to help them fish another weasel out of a lake where it had submerged yesterday. Left Umiat around 0100. Went swimming at the lake and took first bath since leaving Barrow. Back at Umiat around 0330 and to bed. Up at 1030. Spent rest of day unpacking stuff from the Sawcoarit trip and helping Kovanda get his stuff ready to take back to Barrow. He left around 2000 in the evening. To bed at 2300.

~~28 July. Up at 1100. Spent the morning taking it easy, cleaning up quonset, and working with the falcons.~~

28 July - Went out with Ben on a hunting trip. Gone most of the day. We went out around T2 and T7 and up over the hill behind the oil well. Picked up the steel traps on the hill and set them out at the dump for gulls and ravens.

29 July - Up at 0800. Checked traps and had caught adult ♂ red fox. Spent most of day inside, as it was raining all day. Saw another fox by the dump in the evening. Also some large, fresh wolf tracks.

30 July - Ben and I went out on all day trip to look for a ford across the river to the big island opposite Umiat Mt. We found we could cross in several places with not much difficulty.

Spent several hours driving weasel up and down dry stream beds on the island. Then crossed back over below Umiat Mt. Examined peregrine and roughleg aeries on Umiat Mt. Back to Umiat around 2100. The weasel threw another track just after we got started this morning, but we were able to prize it back on again.

General Account

31 July - Spent the day in camp washing clothes, cleaning quonset, reading, and watching the hawks.

1 August - Went out with the weasel across the river again trying to find a helicopter that went down on the island last year. No luck.

2 August - Spent morning writing up notes, getting traps ready for use on second run of Umiat transects and taking movies of the hawks flying at hack. In the evening set out traps on T4 and T6.

3 August - Ran trap lines in the morning and spent afternoon skinning. Ran traps again in the evening.

4 August - Ran traps in the early morning and skinned. In the afternoon, met Col. Walter A. Wood and a party coming back from glacier-hunting at Shrader Lake. Ran traps again in the evening.

5 August - ran traps in morning and skinned all afternoon. Took up traps on T4 and T6 in the evening.

6 August - Dr. Wiggins and Dr. Montgomery (bumble bees) came in at 0300. Saw Wiggins at 0800. He is waiting here for some Navy frogmen who are going to Chandler to dive for MacVicar's body. Montgomery had breakfast with me. He will be here for a couple of days. Spent morning and afternoon skinning, writing up notes and letters to go out tonight. In the evening set out traps on T2 and T8.

7 August - Ran T2 and T8 in the morning and took Montgomery out in weasel to look for bees, skinned in the early afternoon. Later Rusty and MacDonald and I took the weasel across the river to the crashed helicopter. Mac took photos of it for his company's records. In the evening ran T2 and T8 again.

8 August - Ran T2 and T8 in the morning and skinned in the afternoon. Took Montgomery and MacDonald down to the float-plane landing to meet Andy in the early evening. Ran the lines again. Around 2300 Charles Trotter and Russell Dutcher (coal) came in for a couple of days' work. Apparently Otto expects me to feed all these people when they come to Umiat.

Cade
1956

General Account

9 August - Ran traps in morning and took the coal men out for a survey of the area. Skinned and wrote notes in the afternoon. Took up traps on T2 and T8 in the evening.

10 August - Set out traps on T1 and T3 in the morning. Took Trotter and Hatcher in weasel up river and across some dried up channels to an outcropping across the river - in afternoon. They found coal. We crossed the river in a Kalamazoo and they took samples. Ran the lines in the evening.

11 August - Ran lines in the morning. Worked on weasel in afternoon - cleaning out fuel line and sediment bowl. Ran lines again in the evening. Trotter and Dutcher got off to Barrow around 1600.

12 August - Ran lines in the morning. Skinned in afternoon, and ran lines again in evening.

13 August - Ran T1 and T3 for the last time and took up the traps in morning. Skinned in the afternoon.

14 August - Set out traps on T5 and T7 in the evening. Spent rest of the day reading and resting.

15 August - Ran trap lines in the morning. Gossenheimer, the wildlife artist (illustrator of Burt's mammal guide) came in with some AF people from Ladd. Took him out for a tour in the weasel during the afternoon. He got some motion pictures and collected a few specimens. I was fortunate to catch a live Dicrostonyx by hand for him. This he wanted to take back for sketching. Ran the traps again in the evening.

16 August - Ran traps in morning and evening and skinned in between.

17 August - Ran traps in the morning and took them up in the evening. Got a description of T7.

18 August - Spent the day cleaning up the quonset and packing stuff for return to Barrow tomorrow. A party from the Arctic Survival school at Ladd arrived today.

Cade
956

General Account

19 August - Umiat, Alaska

Finished up the last of packing and went out Caribou hunting with the survival group. One of them, a Sgt. Garrett, had been with the Craighead brothers in Wyoming and Montana.

Flight 345 did not take off from Fairbanks today because of the bad weather at Barrow, so I have to wait over.

20 August

Got on the plane this evening around 2030 and arrived Barrow a couple of hours later. Otto and some others were there to greet me.

Cade
1956.

Weather and Phenology

11 June Umiat, Alaska.

0200 Arrived in complete overcast with ceiling of 2000 feet and visibility of less than 1/2 mile on ground. It was snowing lightly when I got out of the plane, and there was a strong NE wind of 10-15 mph. The wind and overcast, with intermittent snow flurries, continued to about 1000. It was below freezing when I arrived, as the melt waters had a thin crust of ice.

About noon the wind abated somewhat, though continuing from NE, and the sky was only partly cloudy - mostly sunny until about 1900, when the high overcast and strong wind returned. Light snow began falling about 2030 and has continued up to 0100 (12 June). At 2330 the air temp was ca. -1°C, and there was ice on the melt waters.

Plant growth is just beginning. Alder buds are still red, about pea size, and are just ready to start opening. Dwarf willow catkins and buds are even less conspicuous, but the large riparian "tree" willows have large catkins; however, the stamens appear to have been frozen in nearly all cases - they are wilted and brown. The bases of grasses and sedges are green. In most places

Cade
1956

Weather and Phenology

11 June Umiat, Alaska
around the installations, Eriophorum has not yet headed out, but I noticed that some bunches at Umiat Lake had blossoms. But no pollen shedding. Vaccinium vitis-idaea is greening up some.

The ground vegetation here looks dense and lush by comparison with the situation at Barrow. Microtine runways, however, are conspicuous everywhere.

The river is completely free of ice and is running fast and high.

Many of the lakes are still almost completely ice-bound. Others, such as Umiat Lake, have open water in their shallow portions. Both ends of Umiat Lake are ice free.

In general I should say, judged from what I could see from the air, that only about 15-20% of the snow cover from winter remains. Some of the largest patches locally are on the sheltered slopes N of Umiat and W of Umiat Mt.

12 June Umiat, Alaska
It was only partly cloudy - mostly sunny when I got up at 1000, with moderate ca 5 mph or less wind from NE. Wind continued all day, getting stronger toward evening. It continued to clear during the day, and the sky was <u>almost</u> free of clouds in early after-

Code
1956

Weather and Phenology

12 June noon. At the USGS hut at 1015 it was 1.5°C in shade and 4.2°C in sun near a white wall. At 1130 the same areas were 2°C and 8°C respectively. About 1800 it started to cloud up again and by 2000 there was a solid overcast. At 2100 it was snowing lightly and has continued to snow (2340). Temp out of the wind now = −0.2°C. Temp of shallow (6 inch max.) melt water pond = 1.2°C

No noticeable change in plant growth. Looked at some Betula nana on the hillside near T-3. The buds are still very small and reddish. None appear to be opening. Eriophorum is blossoming all over the slopes in the area of T-3.

13 June Clear and warm all day. Only clouds seen were far off over Brooks Range. Maximum thawing. Very light wind from NE-E - less than 5 mph. At 1300 on the south slope leading up to Umiat Mt, the surface 10 mm deep of an Eriophorum hummock was 17°C. Three inches deep it was 6°C. The air shaded was 18°C and in sun 20°C. At 2400 the temp was 4°C in sun light, 3°C in shade. Water of a melting snow bank (max depth 6 in.) was also 3°C.

On the south slopes of Umiat Mt, some Eriophorum is shedding pollen. All are headed out. A few Pedicularis (maroon color) are blooming, as well as a small 5 petaled whitish flower with yellow stamens. ~~[illegible]~~

Weather and Phenology

13 June A very few sprigs of *Empetrum nigrum* are also flowering in this area. Willows in the stream bottoms have catkins. Several kinds of decumbent forbs are green, and some willows - decumbents or dwarf types - have green leaves.

Flies, bumble bees and butterflies were out in numbers - also spiders in the vegetation.

Some Dryas has green leaves on Cheat Mt.

14 June Bright and clear at 0930 - all "night" long too. Temp in shade 17°C. No wind. Alder buds are breaking open and show green now. Leaf buds on riparian willows are also breaking. Green shoots of grass and sedge are showing at the bottom of the dead tussocks. Sphagnum moss has 5-10 mm of new growth at the tips - shows up as light green against darker green background.

Remained bright, clear, and warm all day. No wind to very light NE wind in late evening.

15 June Again bright and clear in the morning with somewhat stronger NE wind. Thunder heads and ~~cu~~ cumulus clouds began showing up in the southern sector of sky about 1200, but sun has continued to shine here. Appears to be raining in the Brooks Range. Noted the *first mosquito* while running traps on T-4. In late afternoon noted further progression of leafing out of alders and willows. On a mud bank, sprouts of Equisetum were up 2-3 inches. Several plants are about ready to flower.

T. Cade
1956

Weather and Phenology

16 June — Partly cloudy sky in the south & southwest continued in early morning, and by 1200 there was solid overcast. A few drops of rain fell off & on during the afternoon, but by 1800 it was clearing again, with intermittent sunshine. Wind continues from E or NE – light. Cooler today than during previous 72 hours.

Buds on dwarf birch are not yet broken out. Grasses and sedges are rapidly greening all around bases of clumps.

17 June — Completely and darkly overcast at 0900, but began to break up by 2300, with partly cloudy sky and intermittent sun in afternoon. Light to moderate (Ca 5 mph) wind from NE. Another mosquito noted this morning on T-4. Wind more northerly in late afternoon and blowing in low clouds. By 2200 completely & darkly overcast with ceiling of about 500 feet. It is conspicuous now that the Carex-grass mats are greening up much faster than any of the other vegetation.

Noted a few birch buds breaking open this evening along T4.

Temp at 2300 out of wind = 4.0°C

18 June — Overcast all morning and early afternoon with ground fog and some mist. Slight wind from NNE. Temp at 1300 = 7.6°C Overcast all the rest of day with light sprinkles in the evening

Noted quite a few lupines blooming today.

Cade
1956

Weather and Phenology

19 June — Light rain and some snow during early morning, turning to flurries of large snow flakes at 1100 - melting as soon as hit the ground. Temp. at 1200 = 4.5° Continued overcast all afternoon with light drizzling rain. Overcast and mist continues into the late evening. Temp. at 2345 = 3.5 °C. Sky appears to be breaking up at 2400

20 June — Partly cloudy skies during most of the day with little or no wind. Tending to cloud up more toward evening.

A lot of the cotton sedge blooms are now shedding pollen.

21 June — Partly cloudy in the morning with clearing skies in the early afternoon - warm - but clouding up again in the evening with complete overcast by 2200.

22 June — Began raining about 0100 and continues off and on all morning, with a brief snow flurry at 1200. Temp at 1130 = 4.2°C. Light wind from NW. Intermittant rain continues in the afternoon - through evening to 2400.

23 June — Sky tended to clear some in the early morning with brief sunshine between 0900 - 1200. Solid overcast again in the afternoon with rather hard rain beginning at 2100 and continuing to present (2200). No wind. Temp at 2200 = 2.0°C and rain has just turned to snow - large flakes.

Cade
1956

Weather and Phenology

24 June Umiat, Alaska
Partly cloudy sky - mostly clear until late evening. No wind. Clouding over around 2400. Was bitten for first time today by a mosquito.

25 June Overcast all day with strong westerly breeze until early afternoon. Few drops of rain falling between 1400 and 1800. Cool. Temp at 1830 = 8.6°C. This condition continued into the late evening.

26 June Partly cloudy in the morning, tending to clear even more in the afternoon with scattered cumulus clouds - few drops of rain from some of them. Wind from N - light. Temp at 1700 = 16.5°.

Noted quite a few mosquitos in the marshy areas around T7 -- hovering low - ca 2 ft above ground. First day I have seen a real swarm - only scattered individuals before.

27 June - Bright and clear all morning - one of brightest days I've seen up here. Continuing in the afternoon but with some cumulus clouds showing on the far horizon southward. Temp in shade at 1500 = 19°C - in sun 20.6.

Marsh marigolds are blooming. Lupine is at peak of flowering. Sedum buds are breaking and a few are in flower. Alders have matured catkins which will soon be shedding pollen. Carex in the sinks is at peak of pollen shedding.

Code
956

Weather and Phenology

27 June Brushy plants in general are about halfway leafed out. Water level has been falling in Sea Bee Creek for several days. Less than 10% of ground is covered by snow - only in sheltered places. Larger lakes still have ice in centers. Mosquitos increasing and bothersome for first time today.

Light wind most of day from NE.

28 June Again bright and clear in the morning with moderately strong westerly wind. In the afternoon tending to cloud up with rain squalls appearing on N horizon. Wind shifting to N. At 2300 still mostly clear with scattered clouds. a little wind. Temp at 2300 = 11.2°C. Arctic azalea blooming on slope above T2 - also some buttercups. Arctostaphylos has buds ready to break and Betula has nearly mature catkins. The purple Pedicularis is now in full bloom.

- Cade
1956

Weather and Phenology

Upper Colville R.

30 June — Colville R, ca 10 miles above mouth & Itkillik
Overcast when I arrived with light rain off and on. Continued until late evening. Tending to clear northward about 2400. No wind to light wind from NE(?) Plants up here are about as far progressed as at Umiat. Noticed some stands of Ledum in full bloom. Also Vaccinium beginning to bloom.

1 July — Broken clouds - mostly sunny all day with little or no wind. Good traveling weather. Epilobium on gravel bars is just beginning to blossom. Large stands of blooming lupine on the steep slopes. The little yellow Pedicularis is blooming.

2 July — Broken clouds - mostly sunny with no wind. Tending to cloud up more in the evening with light rain beginning about 2300. Solid overcast then.

3 July — Broken and scattered clouds most of the day tending to clear more in the late evening. No wind. Papaver is blooming on gravel bars.

4 July — Clear until ca 1000, when storm started coming up from S. Strong wind from S-SE beginning ca 0800. Rain - light but pretty steady from 1200 - 2400.

5 July — Overcast with intermittent light rain & wind from 0000 to ca 0600. Clearing from

T. Cade
1956

Weather and Phenology

5 July then on - with scattered cumulus clouds. Light to moderate wind from NE all morning.

6 July Intermittently cloudy during first half of day, becoming more cloudy later with light rain in the evening.

7 July Rain until about 1100. Remaining cloudy with thunderstorms all about. Light drizzling rain beginning about 1800 and continuing.

8 July Overcast and drizzle all day, with short breaks between rains.

9 July Intermittently cloudy - tending to clear.

10 July Bright and clear in the morning - tending to cloud up in afternoon.

11 July Very bright day, warm, with strong westerly wind - driving mosquitoes away.

12 July Mostly overcast with some light rain in the late evening - enough to flip traps! Around Arctic Eriophorum is fully matured in white heads - lupins & Ledum are at peak of blooming. Yellow Pedicularis is very conspicuous, also on gravelly areas some kind of lavender flowered vetch.

13 July Intermittently overcast in the morning, tending to cloud up more in the afternoon. Light NE wind.

Cade
1956

Weather and Phenology

14 July Intermittent clouds - mostly overcast with strong westerly wind coming up in afternoon and persisting through the night. Light rain in late evening.

15 July Overcast all day with strong westerly wind continuing. Light rain beginning ca2200 and continuing up to 2400 at least.

16 July Solid overcast with intermittent rain all day. Strong westerly wind continuing. Too cold & too much wind last 48 hrs for mosquitos to be out. Senecio and Polygonum in full bloom. Cloudberry too.

17 July Rain continuing most of day with strong westerly and southwesterly winds. Tending to clear in late afternoon but solid overcast again by 2100 and rain soon after.

18 July Light drizzling rain and overcast continues. Wind quiet all morning. Tending to breakup in evening. Low ground fog all night. Cold - near freezing.

19 July Skies clearing all morning and but mid-afternoon most of clouds gone. Ground fog again in the late evening and cold - down to 30° F for a short while.

20 July Clear - no clouds at all - and cool. Moderate to strong wind from NE.

21 July Bright and clear all day - some wind from NE

22 July Same. Cold nights - near freezing.

Cade
1956

Weather and Phenology

23 July - clear and warm all day up and down the river. Some haze.

24 July, Sacccvik - clear and hot. Some wind in afternoon from E. Tending to cloud up in late evening.

25 July - Strong E wind ca 0400 dying down in hour or so. Bright and clear all morning - some haze on western horizon in afternoon. Tending to cloud up in evening with ~~th~~ rain storms visible on W & S. horizons. 80°F. max

26 July - bright and hot all morning - strong westerly wind in early morning tending to lessen around 1200. 84°F max.
at Umiat - broken clouds - dark, no wind.

27 July - Overcast all morning, tending to break up with some sun in early afternoon. No wind.

28 July - partly cloudy all ~~day~~ morning with some wind
" 28 July - mostly overcast with moderate westerly wind in afternoon
29 July - overcast all day with intermittent rain and strong westerly wind, dying down in the late afternoon. Overcast continuing to 2400.

30 July - Mostly clear all day with light wind from NE - tending to cloud up some in evening.

31 July - Overcast and intermittent rain all day.

1 August - mostly overcast all day with some intermittent breaking of clouds. Rain and snow, the latter melting as soon as hit ground.

2 August - mostly clear all morning with scattered cumulus clouds. Tending to cloud over more in early afternoon with wind picking up from west. Mosquitos now noticeably less numerous than in mid-July.

3 August - Intermittently overcast all day with some light rain in the evening

4 August - overcast all day with rain more or less continuous.

Cade
951c

Weather and Phenology

5 August – Partly cloudy skies – some sun. No rain.

6 August – Overcast all morning with very strong westerly winds and some rain. Cold. Tending to break in afternoon with a little sun now and then but wind continuing strong. Wind dying down in late afternoon – intermittent overcast continues.

7 August – Partly cloudy but mostly clear in the morning – tending to cloud up more in early afternoon. Heavy overcast and some rain starting by 1500 and continuing late into evening. Strong westerly wind.

8 August – Partly cloudy but mostly clear in the morning – cold night preceeding – warmed up enough for few mosquitos to come out, tending to overcast in evening. Strong westerly wind.

9 August – Overcast all day – rain beginning about 0930 and continuing almost uninterrupted all day. Stopped late in the evening for a couple of hours and then resumed.

10 August – Overcast and raining all day – no wind.

11 August – Overcast all day with intermittant snow flurries. Cold wind from N and NW. Tending to break up some in the late evening.

16 17 August – first bright clear days for a long time. Enough heat to bring out quite a few mosquitos. Blue berries apparently will not bear fruit this year.

18 August – Overcast in the morning – little wind.

19 August – Birch is now reddening and Arctostaphylos is brilliant red. Vegetation in general is rapidly taking on the characteristics of autumn. Partly cloudy skies today

Cade
1957

General Account

26 May—
Left L.A. international at 0800 via United Airlines to Seattle. Arrived there at 1330 Seattle time and transferred to Pan Am, leaving for Fairbanks at 1400. Arrived Fairbanks at 1810, their time. John Buckley and his family met me at the airport and took me out to College, where I had a room reserved in one of the new men's dorms, the Andrew J. Nerland Hall.

27 May
Remained on campus all day talking to various people and reading various field reports Buckley wanted me to see. Had a brief visit with Olaus Murie just before he was to go down to Anchorage to give some talks to boost the plans for setting aside the wilderness area of the eastern Brooks Range. He seemed to be quite encouraged by the local enthusiasm for such a withdrawal. Also had a chance to read George Schaller's report on the Sheenjek River last year. He had some observations from the head of the Jago River — one of them was of Snow buntings with juveniles.

Cade
1957

General Account

28 May -

Went out with John Buckley and Burt Libby at 0800 along the Steese Highway to Twelve-mile Summit, where one of the FWS pilots had reported seeing a dead grizzly bear and cub about a mile off the highway - presumably having been recently shot. He also reported seeing a live cub near the dead animals. When we arrived, we soon saw the live cub - a yearling - which ran off when we approached. A little later I spotted the carcasses, but to our surprise, they had apparently lain since last fall, as they were bloated and rotting fast. We weighed them and lopped off their heads and left. Also saw about nine caribou in the area. Coming back, at mile 25.4 we found a shrike's nest.

29 May

Left Fairbanks International at 0800 for Barrow. We stopped briefly at Bettles for gas, and I said hello to Andy Anderson and made tentative plans to do some flying with him this summer. Arrived at Barrow 1130 and got to ARL via Wien's bus service. Found Brock and Maher already ensconsed in

Cade
1957

General Account

29 May - cont

the lab. They have seen only a little lemming sign and no predators. Talked with Max Brewer briefly before he left for Fairbanks. We plan to go over to Wainwright when he gets back to see about getting lemmings from there. Chester has brought in a few from kids in the village. Spent rest of the day getting my gear together and settling down at the lab. Met the Hamnas for the first time.

30 May

Camp holliday today - nothing doing and very quiet. Brock and I skinned out the lemmings that Chester has brought in so far. We walked out around the cam area in the afternoon. Saw lots of gulls but no jaegers or lemmings. There was a wheatear around and three shore birds that may have been turnstones. Lots of snow buntings and some longspurs.

31 May

Took a 4 hour walk in the afternoon out south of ARL beyond the cam area toward the gas well. Saw a number of birds, including one short-eared owl, but no lemmings. Lots of sign of last year's

Cade
1957

General Account

31 May - cont

activities. Saw a few fresh looking lemming pellets on the first low ridge beyond the can area.

There was little wind today, and the sun was out part of the afternoon. First partly sunny day since my arrival.

1 June

Went out with Brock in a weasel at 1230. We traveled about 4 miles west of the village along the beach bluffs and back inland along the exposed ridges. There was abundant old sign of lemming activity - owl pellets and droppings were everywhere, - but we saw no lemmings and little fresh sign.

2 June

Another bright day. Spent the morning and afternoon in the lab. Skinned a few birds. In the evening, Maher, Campbell and I went out in a weasel to the gas well and back. Saw no jaegers, owls, or lemmings. But we did see almost continual flocks of ducks passing offshore between 2100 & 2400 hours.

3 June

Spent the afternoon in the lab preparing a goose for Max. Went out with John Campbell in the evening to the Point and back looking

T. Cade
1957

General Account

3 June - cont
for eiders. We saw a few small flocks and one small group of oldsquaws.

4 June
Flew in a Cessna 140 with Brewer and Maher to Wainwright and Back to Barrow in the afternoon. We left Barrow at 3 p.m (1500) and traveled at 700-500 feet altitude and ca 5-10 miles inland. Visibility was good. We saw a few jaegers (see Maher's notes for details) and one Snowy Owl just before we landed at Wainwright. Also a good number of water-fowl of various sorts. The tundra was ca. 50% bare of snow.

Arrived at Wainwright ca 1600 and there we met Mr. and Mrs. Crawford, the school teachers. We made arrangements with Mr. Crawford to receive lemmings for us from the Eskimo Kids at 50¢ a piece. After some further talk, Maher and I went out onto the tundra adjacent to the village. Most of the ground we covered was high-center polygon type. Fresh lemming sign was common everywhere, and the look of the ground due to the presence of lemmings was in marked contrast to the ground conditions at Barrow. It was most gratifying to see some fresh sign and to be reassured thereby that

Cade
1957

General Account

4 June

we had been correctly interpreting the sign or lack of sign at Barrow.

The snow was gone off the high centers but was still present in the drainage ditches. All around the edges of the melting snow where-ever we walked over a course of ca half a mile fresh runways and bright green droppings were seen. The runways frequently ran into conspicuous holes under the snow. We found two winter nests.

We did not see a live lemming but during the two hours we were at the village half a dozen kids brought in a total of 31 animals. This is again in strong contrast to the situation at Barrow where we have been able to obtain less than 20 from the kids in more than a week's time. We will certainly want to keep tabs on this area all summer. It will be worth finding out whether some predators attempt to breed in this area this year. At present it does not look like Wainwright is "in phase" with Barrow.

We returned to Barrow via the same route. Visibility not so good but good enough to see jaegers.

Cade
1957

General Account

5 June

Left Barrow at 0900 in an LVT, traveling to the Inaru River with Bill Maher, Bill Boyd, Doc Hanna, Al Brock, Lowell Douglas, and Kenny Tuvak as driver. We followed the cat-trail to the Coal Mine on the way down. The weather was foggy for the first couple of hours but cleared before we reached the Inaru. We arrived at the Inaru about 1300 and ate lunch at an Eskimo duck-shooting camp. There were half a dozen men there hunting. We then continued down the Inaru for about 3 miles, stopping at some conspicuous sand dunes on the left bank. After that we returned over land to Barrow, staying much of the time on frozen lakes.

As we went out it was conspicuous that as soon as we left the immediate vicinity of the shore line, the snow cover became much greater - still obscuring well over 50% of the ground. But after about 10 miles of this, as we got onto higher ground, the snow began to disappear again, so that by the time we got to the Inaru only about 25% or less of the ground was covered by snow. All of the high centers of polygon areas were uncovered but there was still snow in the troughs. Also

Cade
1957

General Account

5 June

conspicuous was the gradual change in the vegetation and micro-topography as we proceeded inland. The low micro relief of the Barrow area with its extensive Carex and Dupontia beds and lack of conspicuous tussocks and low shrubs begins to give way about 10 miles out to a gradual infiltration of Eriophorum tussocks and woody plants such as willows and various "heaths", so that within 5 miles of the Inaru and from there on, one traverses a terrain that is essentially an Eriophorum-heath-dwarf shrub complex with conspicuous tussocks. Along the Inaru most of the ground is high center polygon type except right next to the river. From 10 miles out of Barrow on, then, ground cover is quite good for lemmings.

We saw no owls on the trip and only a few scattered jaegers (see Maher's notes for details) But as we approached the Inaru lemming sign became more and more common. Douglas saw one lemming about 5 miles from the River, we saw two more and caught one along the river, and coming back we caught one more about 10 miles S. of Barrow. Along the Inaru the fresh sign - runways, droppings (green) tunnels in

Cassiope is one of the plants that becomes progressively more common as one goes towards the Inaru.

Cade
958

General Account

5 June

the mace, clippings of green Eriophorum shoots, looked very much as they did at Wainwright yesterday - not quite so prevalent but nearly so. The fresh sign gradually diminishes toward Barrow and practically gives out in the immediate Barrow area - ca 5-10 miles out.

We left the sand dune area of the Inaru about 1630 and arrived back at Barrow at 2130.

6 June

Spent the day in lab writing up notes, writing letters, gathering gear, checking & baiting traps, and making plans for our field trips for the next 2 weeks. Am sending Brock to the Meade River with Maher. I plan to go to Wainwright on Monday next.

7 June

Spent the day in and around the lab. Henry Childs came in on the plane today, and we had some discussions with Brewer about how to get Hank over to Beaufort.

In the morning I counted all the museum specials and baited them with the usual mixture of peanut butter, bacon grease and clove oil.

In the afternoon Al and I processed the

Cade

General Account

7 June - cont

specimens obtained from Wainwright on ~~4~~ June.

Brock and Maher were not able to leave for the Meade today because of mechanical trouble with plane. They will go as soon as the brakes are fixed.

8 June

Brock and Maher left for the Meade at 1300. In the morning Henry and I talked with Max and a USGS man named Sable who was familiar with Beaufort. We have tentatively decided to try to get Childs down on Agiak Lagoon ~~near~~ north of mouth of Pitmegea and south of Beaufort.

We spent the rest of the morning ~~processing~~ some of the Wainwright specimens.

Kovanda and I went out in a weasel along part of the beach ridge and out into central marsh just south of the Barrow site between 1300 and 1500

At 1535 left Barrow with Kovanda and Brewer via Wien, Lockhart flying, to Half-Moon-Three, to vicinity of Cape Halkett and return along the coast to Barrow. In general between Barrow and Half-Moon-Three ground about 20% exposed from snow cover. Lots of water every where. Just east of Admiralty Bay, high center polygons with prominent hummocks become quite common.

Flying between 200-400 ft good visibility

T. Cade
1957

General Account

8 June - cont.
1618 landed at Half-Moon-Three. Met Tom Brower, Jr. and wife. Looked over some low grassy areas - very extensive areas - much low center or flat-topped polygons. On the ground for 45+ min. Left the ranch at 1705. Travelled toward Cape Halkett and landed on a a large lake near 70°45'N, 152°40'W, NE of Teshekpuk Lake. Looked around on some high center polygon tussock ground with much caribou sign - lichens pawed up all over. Vegetation plush. Took off from this lake at 1806 and flew N. to the coast, hitting it ca 15 mi NW of Halkett. We followed the coast back to Barrow arriving at Smith Bay around 1849. Passed POW 4 at 1900. On the ground at Barrow at 1925.

In the Teshekpuk Lake area we saw a group of 5 caribou, one group of 3 and a cow with a calf.

9 June - Childs and I spent the day processing 200 lemmings from Wainwright and getting gear ready for the field.

10 June - Childs and I flew with Lockhart to Beaufort, via Wainwright, to look over the ground for a landing place and a camp for Childs. Then we went back to Wainwright to run the trap lines there. The following

Code
1957

General Account

10 June - cont

is the itinerary of our plane trip.

1442 - Take off from Barrow on wheels - with skiis.

Flying at 105+ miles per hour 300-400 ft alt, following close to coast over land to Wainwright.

1457 Passing Skull Cliff - tundra noticeably clearer of snow west of here - 93% of ground exposed as against about 50% east of Skull Cliff. Ground mostly high center polygon with some tussocks

1511 passing Liz C - inland of it

1533 landing at Wainwright - let off our gear and refueled for trip to Beaufort.

1549 Take off on skiis from sea ice going to Beaufort following the coast several miles inland. Same speed and altitude as previously.

1616 passing inland of Liz B

1617 crossing over Avak River into gentle rolling country with high center polygons and tussocks

1620 crossing over Utokok River

1635 crossing over Kokolik River inland of Liz 2

1640 following coast just SW of Liz 2

1641 crossing over Epizetka River

1643 crossing over Kukpowruk River

1649 flying over a lagoon offshore

1655 now back over coastline

1706 passing over Liz A at Cape Beaufort

1714 Over Agiak Lagoon - one of the possible landing places. The sandspit did not look good at this

General Account

10 June - cont

lagoon, but after several passes at the spit by the lagoon just N of Agiak, Jack [illegible] said he was willing to land. We came down onto some pretty soft sand and gravel but made a good landing, although the wheels cut into the ground 3-4 inches. Getting off was more trouble but we made it safely. At this site the ground rises from the lagoon immediately into the uplands - 1/4 mile walk inland will put one at 300+ feet altitude.

1725 - on ground just N. of Agiak - Pedicularis, marsh marigold, buttercup, willows blooming here.

1815 - take off on wheels from the sandspit and down the coast to mouth of the Pitmegea River. Circled around it several times. Saw a 2 room shack there - looked in fair condition. Jack [illegible] found two good hard gravel bars about 1/2 mi. upstream to land on.

1830 on the ground at the Pitmegea. This landing was much softer than the one on the spit. Our wheels didn't even mark the ground.

There is a 100 ft rocky outcrop on the left bank just below where we landed. It looked good for falcons but none seen there. The Pitmegea Valley is a beautiful area with both upland and river bottom habitats immediately available

T. Cade
1957

General Account

10 June - cont.

to work in. It is more like the Liz A area
than is Agiak Lagoon.

1850 take off from Pitmegea - following upstream.
Valley widens out in places to a breadth of
ca 2 miles or more.

1900 - leaving Pitmegea turning N over the hills
toward Beaufort.

1908 over coast just S of Liz A

1915 passing over Liz A - flew upstream from
there a short ways and back to the coast.

1920 At end of high coastline N of Liz A - cutting
inland straight toward Wainwright.

2007 crossing over Utukok - upstream from out-
flight crossing.

2025 on coast SW of Wainwright

2054 landing on sea ice at Wainwright.

We left Lockheart with a message for Max
Brower and went up to the village to the school
house, where our gear had already been hauled
up by sled and dog-team. We greeted Mr. and
Mrs. Crawford, and were taken to our quarters.

While we were eating a late dinner, Mr.
Crawford came up to tell us that some of the kids had
live lemmings for us. I went out and bought 21
of the best ones for 50¢ each. There were
several others too beaten up to live long.

necessary as one goes west and social along the coast. Very gradually get Beaufort: Wainwright about 2 weeks ahead of Barrow - Beaufort about 3-4 weeks ahead of Wainwright.

T. Cade
1957

General Account

11 June, Wainwright, Alaska

Kenny and I spent the morning 0800 to 1130 setting out the traps on the four transects. Jaegers were all about us. T1 is in sad shape. Apparently Tabor set up a new series of stakes last year. Now there are two sets which do not match up, and it is hard to know which intervals to follow in putting out traps. The other lines seem to be O.K.

Coming into the Village we were met by two kids who had shot 4 jaegers. These we bought for a $1.00.

We ran the transects after dinner and retired around 2330. Spent the afternoon writing up field notes.

12 June, Wainwright, Alaska

Hank and I ran the transects in the morning, then came back to the village to pack Hank's stuff up for his return to Barrow. The Wien plane came back in from Point Lay at 1300. I sent 22 live lemmings and the 4 jaegers back to Barrow with Hank.

I spent the afternoon around the village, ran the lines again in the evening and retired at 0130. Caught 2 more lemmings by hand.

13 June, Wainwright, Alaska

Up at 0900 and ran the trap lines.

T. Cade
1957

General Account

13 June - cont

Spent about an hour watching the jaegers around T3 & T4. Returned to village about 1300 and ate late breakfast.

Note on weather and phenology: ever since we arrived on 10 June, the sky has been clear with bright sunshine. There were some early morning clouds today, but otherwise clear skies still prevail. The wind has been moderately strong and N-easterly all the time but around 1200 today it switched, and is now moderate to light and from the west. Eriophorum tussocks are green at the bases and there are a few heads shedding pollen, but most of these seem to have been eaten by the lemmings. Carex is greening in the troughs. Have seen no flowers to date. At 1400, a fog came rolling in with the SW wind, and ground visibility is now about 2000 feet.

Made the evening run of the traps early and returned to village to prepare to leave tomorrow and to clean up the quarters I have been occupying in the school. Caught two more lemmings by hand - one looks pregnant. Low fog gone at 1700 - now high ~~[illegible]~~ overcast - temperatures dropped from the fifties into the thirties.

T. Cade
1957

General Account

14 June, Wainwright, Alaska.

Up at 0600, cleaned up kitchen, and then gathered up the traps on the four lines. Finished in the field and back to the village at 0930. Packed up gear and had it loaded onto a sled and taken out onto the sea ice by dog team. Lockhart came in from Barrow around 1020, and we departed on the return flight at 1055. Arrived at Barrow at 1150.

Spent the afternoon talking over the Pitmegea trip with Brewer and Childs and helping Hank get food and gear ready. Kovanda plans to go down with him for a few days at the beginning. The food and gear will be shuttled by Lockhart from Liz A to the Pitmegea.

(Margin note: ... area is viewed from the air, it appears only about 20% of the ground is still covered by snow;)

15 June, Barrow, Alaska

Spent the morning again in preparations for the Pitmegea trip. Also began organizing food and supplies for Umiat. I will leave for there on 17th.

Childs and Kovanda left with Lockhart for the Pitmegea at 1300. The gear left earlier this morning for Liz A.

Walked out in the area south of the can piles between 1600 and 1730.

T. Cade
1957

General Account

16 June, Barrow, Alaska

Spent the entire day processing specimens from Wainwright.

Four Pomarine Jaegers and a set of 2 fresh eggs came in from Cape Halkett. They were taken by C. Nolan and were accompanied by a note saying more were on the way!

17 June, Barrow - Umiat, Alaska.

Got my gear and food together in the morning, and left Barrow on the regular flight at 1240. Arrived at Umiat ca 1400. Dusty Treadeau met me at the plane and had the ARL weasel all ready to go except for installing batteries which I brought down from Barrow. The weasel is in fine running order.

Spent the rest of the afternoon unpacking and getting the quonset hut in shape.

Went out in the evening with the weasel to look over the ground and to examine some of the transects.

Weather and Phenology: sunny day when I arrived but began clouding over in the evening. Dusty says it has been dry, warm and clear all spring. There has been no rain, and it was a mild winter. The ice on the river went out on 15 May!

Cade
1957

General Account

17 June - cont.

The river is low - also the lakes, all of which are free of ice, and ponds. There are very few mosquitos - a few large ones staying down on the ground. Willows are well leafed out with catkins shedding pollen on chosen part. Alders are leafing and cones are about ready to break open and start shedding pollen. Eriophorum is past the peak of pollen shedding and mature heads are appearing. Lupines, Pedicularis and Caltha palustris are in full bloom. Cassiope blossoms are nearly ready to open.

There seems to be little in the way of animal life. Fewer waterfowl, fewer passerines than last year. Scarcity of Tree Sparrows and longspurs is especially noticeable. Also ptarmigan.

18 June, Umiat, Alaska

It rained fairly steadily but not hard all morning and off and on in the afternoon, tending to clear in the late evening. Set out traps on T4 and T9 in early afternoon and took a weasel ride down river past T8 down toward Umiat Mt.

19 June, Umiat, Alaska

Ran trap lines in the morning and afternoon. Did some skinning later on. Overcast most

Code
1957

General Account

19 June - cont -
of the day with occasional sprinkles.

20 June, Umiat, Alaska
Ran the trap lines and took another weasel trip down toward Umiat Mt. Ran down onto the gravel bar of the river and continued down it as far as possible and then found an old weasel trail leading back up onto the high terrace. It goes ~~back~~ around onto the back side of Umiat Mt, and appears to be in usable condition.

Overcast all day with light snow flurries

21 June Ran T4 & T9 in the morning early and then took up these traps in the early afternoon. In the late afternoon set out traps on T1, T3, and T7.

It was overcast all day and in the afternoon while I was up on the hill at T3, there was a considerable flurry of snow, but the air was warm.

June Umiat - Overcast all day with strong snow flurries in the morning. Tending to break up with some opening in the afternoon.

Ran ~~the~~ transects in the morning and skinned and wrote notes in the afternoon.

Ran transects again in the evening.

T. Cade
1957

General Account

23 June, Umiat, Alaska

Solid overcast all day with intermittent rain. Ran the trap lines in the morning and evening and stayed indoors the rest of the day.

24 June, Umiat, Alaska

Again overcast all day with intermittent rain. Ran the lines in the morning, skinned in the afternoon, and ran the lines and took up the traps in the evening.

25 June, Umiat

Overcast in the early morning but began to break up before noon and continued to clear all afternoon. By 2100 there is not a cloud in the sky - no wind either.

Set out traps on T 5, 6 and 8 in the afternoon and skinned out some specimens.

ist day
squitos
ve been
"bad"

26 June, Umiat

Ran the lines in the morning and evening and skinned in between times. Sky clear all day with just a few scattered cumulus clouds. Mosquitos continue bad.

27 June

Ran lines in morning and evening. Helped splice a cable on right track of weasel, gave it a lub job and changed the oil. Weather beginning to overcast in the evening. Set 2 squirrel traps along the road near T 8.

F. Code
1957

General Account

28 June, Umiat

Took up traps on T5, 6 and 8 in the afternoon. Set out traps on T10 and looked over T2. Also set 2 squirrel traps on the outcrops above T10. Weather overcast all day with light rain in the evening.

29 June, Umiat. Ran T10 in the morning and set out traps on T2 in the early afternoon. Sky overcast all day with little or no wind. Tedrow and a companion, chairman of his department, came in on the south bound to fly over to Michelram tomorrow. Andy came in in the early evening. Ran the lines in the evening and set out 31 live traps in the disturbed areas on either side of T6 – hope to get M. oeconomus to take back to Barrow.

30 June, Umiat

Ran the trap lines and the live traps in the morning. Caught 2 live M. oeconomus. Between 1200 and 1600, made a trip in the weasel up to the top of Umiat Mt. and return. Ran the trap lines and the live traps again in the evening and made plans with Andy to fly up river tomorrow. Caught 2 more live M. oeconomus in the same two traps as this morning. Weather: mostly clear all day, tending to cloud over in the evening.

F. Cade
1957

General Account

1 July, Umiat and Colville River

Ran the trap lines and live traps in the early morning. Caught nothing in the live traps.

Flew a reconnaissance trip up the Colville River: Andy Anderson - pilot and also accompanied by Harold Griffin, a Wien employee at Umiat. Itinerary follows:

flew at ca 500 feet above ground at ca 100 mi per hour

1030 - we were off the water at Umiat - upstream

1100 - at the mouth of Oolamnagavik River and up that stream

1122 - on the small lake at the upper gyr aerie on the Oolamnagavik, where we were landed last year. On ground ca 1 hour.

1128 - off the lake - just made it - and back down the Oolamnagavik.

1252 - down on the Colville River and coasted along Starfish Bluff looking for falcons

1309 - off the river and headed down stream.

1325 - on the river again by the double knife ridge bluff

1331 - off again

1355 - on the lagoon at Umiat.

Ran trap lines again in the late evening and took up traps on T 10. Caught one live *M. oeconomus*.

Also went out with Tedrow and Thayer + Webster in the afternoon to Red Hill.

Code
1957

General Account

2 July, Umiat -
Went out again with Tedrow and Alderfer in the morning over to the ridge leading up to Umiat Mt. Ran live traps in the morning and evening and helped grease the weasel in the afternoon. Sky mostly clear all day and warm.

3 July, Umiat
Ran live traps in the morning and evening.
John Koranda, Ed Clebsch, John O'Sullivan and Lowell Douglas came in on the Wien plane in the early afternoon. They are staging their Kuparuk River trip out of Umiat and are waiting for Andy to return from his 100 hour check at Fairbanks. - Weather remains clear and warm.

4 July, Umiat
Tedrow and Alderfer left for Fairbanks in the early afternoon. I moved the live traps from the vicinity of T6 and put them out in the area of "Old Umiat". 15 traps are set in M. miurus habitat and 16 are set in a disturbed area that looks rich in M. oeconomus.
The clearest and warmest day yet.

Cade
1957

General Account

5 July, Umiat

While driving out to pick up the live traps in the morning, I threw the weight track completely off the carriage. Spent most of the day working to get it fixed. It seems to be O.K. now.

John Cantlon came in today to go to the Jago. With him were Harry Brower and Kenny Toovak who are going over to set up the Jamesway. Pete Sovalik also came down with a 16 foot Kalamazoo and outboard motor. He will accompany me on the river. There are now 12 of us here from ARL waiting for Andy to fly us into the field.

Sky today was mostly overcast with several thunder heads which brought sporadic hard rains and lightning.

6 July, Umiat

Took up the live traps in the morning, and spent the rest of the day waiting around for Andy. Cleaned up the USGS hut and packed all gear and equipment not needed for the river trip.

Overcast all day with some rain.

July, Umiat : Colville River

Andy finally came in from Bettles at

Code
1957

General Account

7 July -cont

0230. At 1227 he and I were off the water with most of the gear - headed up stream. Strong westerly wind and overcast. At 1306 we were on the river about 2 miles above the mouth of Oolamnagavik R. We unloaded on a gravel bar in mid-stream, and Andy returned for Pete Sovalik. I began putting our 16 foot Kalamazoo together, and Andy was back with Pete just as I was finishing at 1445. We ate some lunch, loaded the boat, checked the 5 H.P. motor and were off the bar headed down river at 1550.

1612 Passed by the cliff on left bank just above Oolamnagavik mouth.

1620 Passed mouth of Oolamnagavik

1625 ~~Passed~~ at first cliff on right bank below Oolamnagavik R. Stopped

1706 Left this site and continued down river.

1720 Stopped at long high cliff - first on left bank below mouth Oolamnagavik

1955 Left this site and continued down river.

2006 Passing along the upper Killik bluffs on right bank.

2010 Along middle Killik Bluff.

2020 Stopped at Lower Killik Bluff to

T. Cade
1957

General Account

7 July - Colville R.
check agues.
2206 Left this cliff and continued down river.
2230 Stopped on gravel bank across from mouth of Killik River to make first camp.
Weather overcast all day with brisk westerly breeze and intermittent light showers.

8 July - Colville River
1045 Left the Killik River camp with clearing skies and bright sun, westerly wind still blowing. Were not bothered by mosquitos at night because of wind. We used the Kalamazoo as a lean-to.
1055 Stopped at a bluff on right bank - with slough running below the length of it - just off the main course of the river.
1500 Left this site and continued down river. - Is this "Starfish Bluffs" of the maps?
1620 At the bluff on right bank where gyrs were nesting in old raven's nest in 1952.
1735 Left this site and on down river
1907 At the Double Knife Ridge Bluff.
2035 Left this cliff and on down river. We almost lost the boat in the rapids below

T. Cade
1957

General Account

8 July - Colville R.
this cliff - got turned around backwards in swift water trying to make a landing. Also had trouble here with the starter cable on motor.
2050 Stopped at the 1956 gyp-cliff on right bank ca 1 mile below Double Knife edge Bluff.
21~~45~~ Left this site and on down river.
2300 Stopped to camp on gravel bank on left side of river.
Sky became overcast again in early afternoon with drizzling rain much of the time. Wind still westerly but quieter. Drizzle continued all night - wet camp!
9 July - Colville R.
1115 Left camp #2 for the last lap of the trip.
1300 Stopped at the last left bank cliff before Umiat.
1455 Left this site and on down river.
1550 At second to last big cliff on right before Umiat.
1627 Left this site and on down river.
1700 At last big cliff on right before Umiat.
1745 Left this cliff.

T. Cade
1957

Journal Account

9 July - Colville R - Umiat
1807 - At the coal seam cliff on right bank opposite Umiat.
1820 Arrived at the Umiat dump landing on left side of river.
I walked in to get the truck while Pete dismantled the boat.
Sky overcast all day with infrequent light drizzle.

10 July, Umiat - Barrow
Max Brewer, Harry Brower and Henry Tooyak came in with Andy from the Jago River around 0900. I packed up my animals for shipment to Barrow, and we all left on the Wien plane which came in at 1030. Spent the rest of the day at Barrow unpacking, recaging and catching up on the local information.

11 July, Barrow, Alaska.
Spent the day writing letters and catching up on notes and making plans for next trip to Point Lay.

12 July, Barrow, Alaska
In and around the lab all day. Gave a seminar in the evening on Peregrines and gyrfalcons and falconry.

T. Cade
1957

General Account

13 July, Barrow

Again spent the day in the lab writing. Plan to leave for Point Lay on 15th for 3-4 days. But my traps have not yet arrived from Umiat, and this may cause me to leave here short-handed with only enough for one transect.

Max brought General Saleen, Western District Manager for F.E. of the Dewline, into the lab in the afternoon, and we showed him some of our specimens and live animals.

The Dewliner from POW 1 brought in three live Snowy Owls for Max - ca. 2 weeks old.

14 July, Barrow

Doc Hanna was at POW A, Cape Simpson from 9-11 July. He saw 42 jaegers, of which more than half were long-tail. He also saw 4 snowy owls. None of the owls or jaegers seemed to be nesting. He said lemmings were quite common, and in driving over the tundra one was seen every few hundred feet. Lots of burrows and runways. The ground was mostly low center polygon type.

Simpson info

T. Cade
1957

General Account

15 July Barrow - Point Lay

Left Barrow at 0915. Stopped at Liz 3 at 0955 and off again at 1008. Arrived at Liz 2 (Point Lay) at 1053. Met Clarence Nolan, the station superintendent, and got squared away in a wanigan. Nolan made a weasel available for me in the afternoon, and I was taken out onto the tundra back of the site. We were out from 1515 to 1720 and covered about 2 sq. miles of ground between the site, which is right on the lagoon, and the Kokolik River and the large lake where they get their drinking water, about a mi east. There is a gravel bed road out to the lake. The ground right along the lagoon is up-raised a bit and is a Eriophorum tussock-heath-dwarf shrub complex but this drops down almost at once to low flat terrain of low center polygons. The highest rise in the immediate vicinity, a short ridge ca 50 ft high, lies between the lake and the river - north-west of the lake. We went over this ridge, along the river to the eastern end of the lake and back to the site. Lupine and a plantain were commonest flowers seen.

Cole
1957

General Account

15 July, Point Lay
In the evening I met Warren Neakok and his wife down at the lagoon and they took me across to the village in their boat for the evening. They were very friendly and gave me lots of good information.

16 July Point Lay
Went out again in the afternoon from 1325 to 1815 on the ridge near the lake, over to the river and back, skirting the north edge of the lake. Mr. Nolan had me taken out as far as the end of the road to the water shack in a jeep, and I walked from there. Covered about three miles on foot. Yesterday was partly cloudy with some sun and wind. Today was entirely overcast with stiff SW wind. It began raining ca 1900 and continued lightly through the night.

Again saw very little fresh microtine sign and no live animals - either in upland or lowland situations. Sign commonest along uplands of river terraces and along lagoon.

One of the men at the site told me that in 1955 snowy owls were very common at Pow 2 (Oliktok Point east of Harrison Bay).

T. Cade
1951

General Account

17 July Point Lay - Barrow
Left the Point Lay site at 1125. Stopped at Liz B (Icy Cape) at 1150. Off again at 1158 and down at Barrow at 1246.
At Icy Cape I saw no jaegers or owls while we were landing, on the ground, and taking off. Landing and taking off give a good opportunity for looking over the immediate vicinity of the sites.

-23 July Barrow
Working in and out of the lab - mostly processing Eskimo caught lemmings from Wainwright, Barrow and Pitt Point. Also working with the live gyrfalcons - getting some temperature records.

4 July Barrow
Col. Walter A. Wood and Sir Hubert Wilkins and a Mr. Sullivan of the New York Times visited in our lab today. Wood and Sullivan took some movies of the gyrfalcons.

5 July Barrow
Met Mrs. Barbara Blanchard Oakeson, as she came in on the Wien Commercial tour flight at 1230. She plans to be at Barrow until Sunday and will visit at the lab tomorrow.

Cade
1957

General Account

26 July, Barrow

I drove down to the village in weasel in the morning to pick up Dr. Oakeson. She visited at ARL in the morning and had lunch with Ingrith Degrup, In the afternoon we went out on the tundra toward the gas well and around the Voth area, finally cutting across the tundra back to the village. We arrived back at the hotel about 1500.

27 July Barrow - Pitt Point

Left Barrow at 0845 via Arctic Cessna 180 wheel plane for POW 1 (Pitt Point). We stopped at POW A (Cape Simpson) at 0915 and were off again at 0920. Passed over the westward end of Teshekpuk Lake at 0940 heading NE toward the coast. Down at POW 1 at 0950. Mr. Bill Shane, the station chief, was asleep - day off, so I was not able to see him at once, I was given a bed in a canvas-covered quonset with some of the workers. Between 1050 and 1200, I walked out to the end of the road to the water shack and back looking for owls and jaegers. Hereafter in these notes, this road is referred to as "the short road" to distinguish it from "the long

Code
1957

General Account

27 July, Pitt Point

road" which goes out to the river. See Maher's map of Pitt Point. Between 1240 and 1725 I walked completely around the site - starting out in NW direction out beyond the tanks on the coast and back along the inland side of the lake just N of airstrip, then out toward the dump in the "bachelor owl" area of Maher's map; then turned S a ways paralleling the river - back to the 3 beaconed USGS marker east of the airstrip, along the N edge of the large "drained" lake and back toward the site coming in on the Long Road. Owls and jaegers were observed on this excursion and the general condition of the ground and lemming sign were noted.

...and / ...nder ...l #11210 ...een the ...tanks.

At 1930 I went out to transect #2 (see Maher's map) and set out traps. While in that area I also banded 3 young owls in nest #3. Then went over to T1 and set out the traps there. Returned to camp at 2215.

The sky was partly cloudy all day, tending to become more and more overcast in the evening.

T. Cade
1957

General Account

28 July - Pitt Point

Went out at 0855 to run traps on T2. From there I walked a ways down the Long Road, then cut across to the area of owl nest #6, then on to the area of owl nest #2, and then south of there for half a mile and return to T1. Back in camp at 1140.

At 1530 I went out to look at owl nest #1, found the 3 banded juveniles #'s 11211, 11212, 11213 on the Skeet Road. Same ♀ that takes care of 11210 flies over to take care of these 3 also. The single young is ca 1/4 mile away from the other three. From nest #1 I walked SE to the lake area toward the old village site and return to camp at 1730.

Out to run trap lines at 2255 and back in camp at 2300.

Rain began around 0430 and continued fairly heavily until 0800. Continued light, intermittent rain all the rest of the day.

Oliktok Point, 1955

One of the men here again brought up the subject of the great number of owls nesting around POW 2 (Oliktok Point) in 1955. This without prompting from me.

Cade
1957

General Account

28 July Pitt Point

Federal Electric puts out a monthly "news" magazine on the dewline — "Dewline Polar Echoes," The Dewline Dept, Federal Electric Corp., Route 17, Lodi, New Jersey. Editor: John P. Lynch. - Has some good info & pictures.

29 July Pitt Point

0820 out to T1, then over to T2 and following along the west side of drained lake at 0900 paralleling the Long Road - down to the river. The lake bed is most interesting vegetatively as it is still in a very early seral stage - with mostly pioneer forbs and grasses occurring. Apparently the lower wall of the lake was undermined by river action, or the melting of an ice lens, anyway there is a narrow break in a 15-20 foot dike at deep end of lake and all the water drained into the river. Hard to tell how long ago this was but it is relatively recent as far as vegetation is concerned. There were signs of recent lemming activity all over the lake bed, even though the ground is only ca 50% covered by vegetation. Polygonization of

Cade
1957

General Account

29 July Pitt Point
soil-nearly all inorganic- is taking place. Most interesting set up for study of vegetative succession. At the river I turned NE to follow the stream towards its mouth. At 1310 I was again at the USGS marker east of the airstrip and at 1430 I was back in camp.

At 2300 went out to run traplines again and back at 0015 on 30th.

Overcast all day with mist and intermittent light rain in the morning, becoming more raining and windy in the evening.

July Pitt Point
Ran the traps in the morning around 0900 and again in the evening, taking them up, around 2100. Overcast all day and raining in the afternoon and evening. Spent most of the day writing up notes.

1 July Pitt Point-Barrow
Left Pitt Point in Interior's Cessna 180 about 1430 and arrived Barrow at 1530. Spent rest of day unpacking and catching up on Barrow happenings. John Campbell came in from field trip with some English girl out of Irving's lab to

T. Cade
1957

General Account

31 July Point Barrow
report that they had seen four Snowy Owls on the tundra back of the Barrow installation.

August Point Barrow
In the lab all day processing specimens from Pitt Point and Wainwright.

August Point Barrow
Making plans for ca 3 weeks at Jago Lake. Spent the day getting gear, food, and equipment ready.

3 August Barrow-Umiat
Left Barrow at ca. 1300 in Weins newly rebuilt Super-46, very plush, for Umiat, where I will meet Andy on 4 or 5 Aug to bush-whack into the Jago camp. Arrived Umiat 1420.
Andy came in from Bettles around 1830 and went out again to pick up part of the party on the Sagavanirktok. He came back in around 2130 with John O'Sullivan and Jim Drew.

August Umiat-Jago Lake
Andy went back to the Saga around 1000 to get Shanks and Koranda, and Drew and O'Sullivan went on to Barrow around 1030 in the Super-46. Andy et al. returned to Umiat around 1200. The

. Cole
1957

General Account

August Umiat-Jago Lake.

Super 46 stopped again south bound with a resupply for the Jago Lake camp, ca 1300.

Andy and I left for Jago Lake around 1400 and arrived on the lake about 1615 or so, having had to buck a moderate head wind all the way.

Andy then shuttled Cantlon, Gillis, and Conklon (Sp), Sable's assistant, over to the Okpilok where they will remain until the return to Barrow around 24 Aug.

Ed Sable remained over night with me, but plans to walk up to the glacier camp tomorrow and from there over to the Okpilok camp, where he will also remain.

In the late evening I made a couple of short walks up onto some of the benches immediately around the lake to get the lay of the land.

August Jago Lake

Retired at 0100 and up with Sable around 0830. We rearranged some of the supplies and pushed three of the food drums up from the lake to the Jamesway and then at 1225 Sable took off for the glacier. I followed him out for about

T. Code
1957

General Account

5 August Jago Lake

ca 1 1/2 up along a high bench, and then turned off for more leisurely walking and bird observation. At 1415, I turned down from the high bench into the flats and back along the river toward camp. I returned to camp at 1605. At 1700 I walked down to the river from camp and then up along the high bench on the east side of Jago Lake to the north end of the lake and return along same route—arriving camp 1820. At 2230 I walked south to the little knoll or peak ca 3/4 mi away from camp to look for my gyrfalcon. Returned to camp at 2330. Retired at 2400.

Skies have been mostly clear with little or no wind since my arrival. Mountain peaks visible at all times.

All the immediate ground for several miles around Jago Lake is glacial in origin. There are three or four successively higher benches in the valley. I have seen no evidence of polygonal soils and I would guess there is no permafrost, as the soil is only ca 1 foot deep over the gravel and

T. Cade

General Account

4 August Jago Lake

rock. About 1 mile upstream I found in the bottom land a small area of the Eriophorum tussock-dwarf shrub-heath complex, but there appears to be little of this around. Most of the vegetation is predominately a moss carpet with sedges (Carex) and grasses predominating more or less in local areas - especially wet ones. Low willows occur throughout most of this. All this vegetation is shallow and bare granite rocks stick out all over it. On the higher benches there are extensive rock-strips with a more complex growing among the rocks. These areas look like excellent small-mammal habitat - esp. for Clethrionomys. Along the drainage systems dense stands of willow grow from knee to waist high on the average, though some examples reach head height and Sable said that upstream he had seen some ca 10 feet high. The edges of these stands also look good for mice. Very little sign, however, has been seen anywhere. Low-sparse stands of felt-leaf willow grow on the nearly

T. Cole
1957

General Account

5 August Jago Lake
stream-worked gravels of the river bed. Along some of the benches, esp. lower ones, dense stands of knee high Betula grow. The crests of ridges and knolls are mostly rocky with a covering of lichens, decumbent forbs and willows.

6 August Jago Lake
At 1335, I began laying out transects for the first two traplines. This work was completed and the traps set out by 1735. At 1745 I walked south to the knoll ca 1 mile away, which commands an excellent view up the river valley and then back along the first bench above Jago Lake to camp, arriving at 1850.

Fog and clouds began moving in from the north around 0800 and the sky was completely overcast by 1000 with the ceiling down at the level of the third bench above the lake. The ceiling continued to drop and by 1430 the fog was at the level of the river. At 1850 it started misting, by 1930 the mist was turning to rain. At 2115 the rain changed to slushy snow. There were a few minutes of hard snow fall,

T. Code

General Account

6 August Jago Lake
and then all precipitation ended at 2200.

7 August Jago Lake
0900 out to run the traplines. Back in camp at 1035. At 1155 I went up to the little lake above the Jago ca 1/2 mi SW and near the lower end, along a willow-grown drainage out of the lake, I set up a mist-net. My collecting gun has a broken or malfunctioning firing piece, so the only way left for me to get birds is by netting and trapping. This net is set in the area where I saw a red-spotted bluethroat yesterday. Also set out 24 museum specials in the adjacent willows.

Spent the afternoon preparing specimens. Ran the traps again in the evening and set out another mist net near T1-10,8, across the outermost braid of the river, in the area where I saw the snipe the other day.

The mist net at the upper lake caught 7 redpolls.

High clouds completely overcasting all day - occasional drops of rain.

T. Cade
1957

General Account

8 August Jago Lake
Ran the traplines and checked the mist-nets between 0900 and 1200. The mist net along the river caught one tree sparrow and one wheatear. The net at the upper lake caught 4 redpolls and 4 Savannah sparrows and 1 shrike, which got away when I arrived.

Sky bright and clear all morning and afternoon, with just a few small cumulus clouds over the high peaks.

Ran the traplines and mist-nets again in the evening. Sky continued clear all day - little or no wind - hot 20+° C.

August Jago Lake
Ran the traplines and checked the mist-nets in the morning and prepared some specimens. Took up the traps on T2 but left those on T1 out for another 24 hours since no mouse has yet been caught on it. Finally got the 22 - .410 in working condition: both barrels fire now.

Sky mostly clear again with some cumulus clouds between 1200 and 1700 - Still and warm - up to 24°C.

T. Cade
1957

General Account

10 August Jago Lake

Prepared specimens and did camp chores during the morning and early afternoon. Layed out the transects for T3 and T4 and took up the traps on T1. Had a hard time getting across to the "island" because of high water due to the warm days and the melting of the glaciers.

Clear sky in the morning becoming partly overcast in the afternoon, to completely overcast in the early evening, to partly overcast again in the late evening. Light southerly wind.

11 August Jago Lake

Set out traps on T3 and T4 in the morning. Ran the mist nets. A large hawk or owl or herd of caribou tore through the net stretched across the stream bed below camp. It is irreparable. May have been the gyrfalcon that was around camp yesterday. Ran the traplines in the late evening.

Sky mostly overcast with high ceiling most of the day - but late evening fog creeping down the river valley and engulfing the lower two benches.

T. Code
1957

General Account

2 August Jago Lake

Ran the traplines in the morning and prepared specimens in the early afternoon. Also set out the live shrike caught yesterday with a dhogaza on a near by knoll in case another falcon flies through here.

Skies overcast all day with some rain and low fog in the river valley. Andy did not show, doubtless because of the weather. Ran traplines again in the evening.

13 August Jago Lake

Ran traplines in morning and made several short walks in the vicinity of the lake, expecting Andy to show up any time. He came in around 1115, Left off some more supplies and then was off to the Okpilak camp and up to the glacier to make a drop. He came back in here with Billes around 1230, and Billes got some stuff welded over on the Okpilak, and they left again around 1330. Andy plans to come in on 24th to pick us up.

Ran traplines again in the evening. Sky partly cloudy in morning & early afternoon - becoming completely overcast later in day,

T. Cade
1957

General Account

3 August — Jogo Lake

My .22 - .410 went on the blink again today and I can't seem to fix the trigger spring this time. "The spring is sprung!" Will have to resort to netting again for specimens.

4 August — Jogo Lake

Took up the traps on T3 in the morning - left those on T4 out, as no mouse has yet been caught on that line. Prepared specimens in the afternoon and cleaned up around camp.

Ran T4 again in the evening.

Partly overcast but mostly sunny all day. Heavy rain and strong winds late last night. Cold. No mosquitos out today.

5 August — Jogo Lake

Ran T4 in the morning, early, and then took off up river at 1000, following the 2nd bench above the lake. Walked to Mount Marie and up onto the north face. Back to camp along the same route, arriving at 1530. Ran T4 again in the evening.

Some overcast in early afternoon but mostly bright, clear and hot. I could see the Dewline site on Barter Island from Mount Marie.

T. Code
1957

General Account

16 August Jogo Lake
Took up the traps on T4, although still no rodent caught. Spent rest of day working around camp.
Bright and clear, hot, in the morning but becoming cloudy in the afternoon and by 1600 completely overcast. Rain and mist and low fog from 1700 on into the evening.

17 August Jogo Lake
Set out the markers for T5 and T6 in the morning and got the traps distributed but not set. Prevented by rain.
Rainy and overcast all day, tending to break up around 2300.

8 August Jogo Lake
Partly clear in the morning-becoming again overcast in the afternoon with mist and low fog beginning around 1800. Set out the traps on T6 in the early afternoon.

August Jogo Lake
Constant rain and ~~pr~~ heavy mist all day. Set out traps on T5 in early afternoon. Ran T6 in morning and evening.

T. Cade
1957

General Account

20 August — Jago Lake

Ran trap lines in morning and evening. Walked down river ca 1 1/2 miles and back in early afternoon and skinned some specimens later on.

Partly clear in the morning, tending to become more overcast in early afternoon with solid clouds by 1400. Light intermittent rain from 1500 on into the evening. No wind - or very light. New snow fall in the mountains.

21 August — Jago Lake

Ran traplines in the late morning and took up the traps on T6. Ran T5 again in the evening. Sky partly clear in the morning becoming overcast in the afternoon with intermittent showers lasting through the evening.

22 August — Jago Lake

Ran T5 in the morning and evening - still no microtine catch on this line.

Around 1700, Charles Keeler, from the lower McCall glacier camp, came in, having walked down the creek on an exploratory trip. In the evening he and I walked up onto the upper bench above the lake to try to make radio

T. Cade
1957

General Account

2 August Jago Lake
contact with the glacier camp, but we were unsuccessful.

3 August Jago Lake
Took up traps on T5 in early afternoon. Spent rest of day packing up gear etc. and cleaning up camp in preparation for leaving tomorrow.
Charlie walked up the river to do some work along the lower reaches of McCall Creek and returned to Jago camp around 1930.
This evening while out walking on the low ridge just back of the Jamesway I caught by hand a subadult ♂ Dicrostonyx.

4 August Jago Lake
Spent the day finishing the clean-up of camp and waiting for Andy to come in. He has not shown. Keller still here with me. Will go back to the glacier tomorrow.
Andy came in finally at 2130 with a friend, Ed somebody. Too late to travel, so spending the night at Jago. Frank Talbert also was along - came over to "winterize" the Jamesway.

Cade
1957

General Account

5 August Jago Lake - Barrow

Up at 0400 and Andy and I were off at 0500 over to the Okpilak River camp. There we picked up Gilles and Kunkle, and the three of us were flown into Umiat. There we picked up the Super-46 north-bound at 1100 and arrived in Barrow around 1215. Spent the rest of day catching up on news and correspondence. All of the Pitelka group are now in the lab. Childs leaves tomorrow. Brock got a stupendous catch on the second run of the trap lines at Wainwright - over 250 specimens on 4 lines!

August ~~Jago Lake~~ Barrow

Ran T 9 & 10 this morning with Brock and spent the rest of the day in the lab writing letters etc. Rain all day.

August Barrow

Ran T 9 & 10 with Brock in the morning and in the early afternoon we went out around T 5 & 6 to establish plots for the soil and vegetation samples to be sent to Berkeley. The samples were collected and taken in to the lab.

T. Code
1957

General Account

August — Barrow

The locations of these plots are indicated on the map showing the trap line positions. The Arctagrostis and one Carex sp plot are located 50 paces south of transect 5 and 50 paces west of a line of exclosures running across the trapline at ~~T5~~ stake 5.0. A second Carex (aquatilis?) 30 paces South of exclosure #54. The "Eriophorum" and "Dupontia" plots are in Central Marsh 100 yds W of stake 0,0 of T5.

8 August — Barrow, Alaska

Processed lemmings all day with Brock.

August — Barrow

Processed lemmings all day with Brock.

August — Barrow

Packed specimens and prepared to leave.

Cade
1958

General Account

17 June - Left San Francisco International on United flight 759 at 1625 (15 min. late) and arrived Seattle 1804 Pacific Standard time. ate dinner at the airport - cost $3.10. Left Seattle via Pan Am flight 911 at 2230 (30 min. late).

18 June Arrived Fairbanks at 0450. Breakfast at the airport - cost $1.05. Left via Wien for Barrow at 0900 - arrived at 1200. On the plane I met Norman Chance, anthropologist from Oklahoma, who is going to Barter Island to study social conditions of Eskimos in the new village there. Also saw Fred Milan briefly at the airport. He introduced Chance.

Max already had a bush flight arranged for the afternoon. At 1407 Royal Shanks, Bill Maher, and I made the same survey flight east of Barrow that Max and Rosanda and I made last year. Bob Fisher was pilot. The following is the itinerary and time of my observations. See Maher's notes for plot of exact route taken. We flew at 300 to 200 feet most of the way with air speed of 80-90 miles per hour. Visibility was excellent to good except for the last 10 minutes,

General Account

18 June The snow appears to cover about 15% of the ground yet.
1412 - off the ground at Barrow.
1430 - flying off shore west of Admiralty Bay opposite Dealock Island - going south.
1440 1 glaucous gull seen
1450 2 male willow ptarmigan
1500 - ca 20 miles south of Half Moon - 3 flying east
1505 - 1 male willow ptarmigan
1509 - 2 caribou
1512 - climbing up to get a landmark - at 650 ft.
1515 - 4 caribou
1516 - flying at 1600 ft.
1523 - crossing over Ikpikpuk River
1529 - 1 male willow ptarmigan
1531 - now flying at 300 ft again
1535 - 1 glaucous gull
1536 - 1 arctic fox sitting out on tussock ground
1539 - ca 2 miles S of SW end Teshekpuk L.
1540 - swinging N along the lake passing over island at west end.
1540 - 1 glaucous gull
1541 - 1 glaucous gull
1552 - at NW end of Teshekpuk
1554 - 5 caribou
1554 - turning toward POWA (Cape Simpson)
1555 - 3 caribou
1558 - 2 pomarine jaegers

Cade
1958

General Account

18 June 1605 - crossing delta at Smith Bay
1605 - 2 swans
1607 - 1 glaucous gull
1610 - 2 glaucous gulls
1611 - 1 glaucous gulls
1613 - 1 pomarine jaeger
1613 - 1 snowy Owl - on nest?
1614 - 2 snowy owls - 1/2 mi apart - S of POW A, which is now in sight
1616 - 2 snowy owls
1617 - 1 snowy owl
1620 - 8-10 snowy owls back of POW A
1622 - 1 snowy owl
1623 - 1 swan
1625 - 1 snowy owl
1626 - 1 pomarine jaeger
1627 - 2 glaucous gulls
1628 - 1 snowy owl
1629 - 2 snowy owls
1630 - 1 pomarine jaeger
1631 - flew by POW A after circling once around the owl area back of it.
1634 - 2 snowy owls
1635 - 1 snowy owl
1636 - 1 snowy owl
1637 - at Deese Inlet
1640 - going off shore over Plover Islands
1649 - 8 glaucous gulls

Cade
1958

General Account

18 June 1656 - back to mainland from Cooper Island
1657 - 1 glaucous gull
1658 - 1 black parasitic jaeger
1700 - 1 snowy owl
Ground for the past 10 minutes has the appearance of heavy grazing - everything cut down in low areas and diked lemming run ways are very conspicuous.
1706 - winter nest of lemming
1709 - 1 glaucous gull
1710 - ran into heavy fog - no further observations possible.
1720 - on ground at Barrow.
Total observation time = 3 hours x 60 miles = 180 miles.
Summary of observations
Snowy Owls = 25
Willow Ptarmigan = 4
Parasitic Jaeger = 1
Pomarine Jaeger = 5
Glaucous Gull = 18
Whistling Swans = 3
Caribou = 14
Arctic Fox = 1

19 June Barrow, Alaska
Spent the morning getting my clothing issue and gear, talking to Max Brewer about the program for the summer, and counting

T. Code
1958

General Account

19 June cont

and baiting museum specials. We have enough traps for six lines plus about 50 spares in addition to the two sets and spares that Childs has at Pitmegea.

After lunch Brock and I went out on the tundra and set out traps on transects 1 and 2, and 5 and 6. We also looked at the lines in Central Marsh, which are still quite wet.

[...]n one of [...]e muskegs [...] the first [...] time.

Clear sky, no wind, much melting of the little remaining snow - very mild and unusual day of weather. Ranunculus nivalis is blooming and the large purple Pediculari[s] has large heads, only a few of which, however, are in flower. Some tussocks - those not eaten down by lemmings - are in flower, but not yet shedding pollen - this is Eriophorum vaginatum. I have seen no Carices in bloom.

20 June Barrow, Alaska

At 0845 Brock and I went out in a weasel and set out traps on transects 9 and 10. These are on ground that shows some of the heaviest utilization by lemmings - every foot of the line shows evidence of winter cutting. Then we ran the lines set out yesterday. The only catch was 3 longspurs and one

Cade
1958

General Account

20 June -cont

red phalarope. We returned to ARL at 1150. Spent the afternoon writing notes and correspondence.

Sky with hazy overcast today and some onshore wind but weather still relatively mild.

After dinner Brock and I went out again from 1830 to 2105 to run the six transects. When we got back I walked out over the Arctophila area between ARL and the caps between 2115 and 2220 — to look for more lemming nests.

21 June Barrow - Brock, Maher and I went out on the tundra with John Cantlon at 0800 to get some botanical information on the local grasses and sedges. Sky again bright and clear but cold wind blowing from off the ocean.

At 1340 I went out in weasel to look for lemming nests. The area investigated was the high ground around T9 and T10. Nests were sparsely distributed in this area. Also looked at areas between the beach ridge and the airstrip, in the center of Central Marsh, and at the south end of Central Marsh. Back in camp at 1700.

Code
1958

General Account

22 June Barrow, Alaska

Wrote letters in the morning and worked around the lab - oiling traps etc.

Went out with Brock at 1500 to run the traplines. Back in camp at 1700. There appears to have been an increment of shorebirds in the last two days - noticeable among semipalmated sandpipers especially and among pectoral sandpipers to some extent. Also dowitchers seen for the first time this spring.

23 June Barrow - Went out in weasel at 1235 to investigate more lemming nests - went south of Central Marsh toward the gas well. Returned to ARL at 1635. Weather mostly overcast today with some hazy sunshine.

At 1845 Brock and I went out and took up the traps on T1e2, T5e6, and T9e10, in anticipation of departing tomorrow for Meade River.

4 June Barrow - sat around most of the day waiting for the weather to break for flying. Finally had to give it up around 1500. So Brock and I went out before dinner and set ~~some~~ ten live traps baited with sardines for weasels. Earlier, in the morning, we picked 10 plots for Schultz near T9e10. Pete went with us to see where they are located.

T. Cade
1958

General Account

25 June Barrow – Meade River

Brock and I left Barrow, flying with Bob Fisher, at 0935 for Meade River. The following is itinerary and details of trip.

0937 – off ground at Barrow – flying west along the coast at 85-90 mi per hour and ca 1400 ft.

0941 over Barrow village

0957 came down low over the ground just east of Skull Cliff by the fallen tower to look for lemming sign – ~~none~~ not much seen – flew low until 1000, at which time we turned inland toward the Meade – flying at 700 ft.

1005 – over the upper Inaru

1008 – 6 caribou and 1 glaucous gull seen

1014 – over the Meade River following it upstream

1025 – down at the Coal Mine on the Meade. While waiting for the second plane load of gear, I walked around in a radius of quarter around the village looking over the ground – from 1100 to 1230. Bobby and Paul Tietzen returned with the rest of our stuff around 1400. The four of us with the help of the two Eskimos, Johnnie and Joe, dragged the ARL boat down to the

T. Cade
1958

General Account

25 June - Meade River
river.

Weather was clear and warm when we arrived and continued clear all afternoon, becoming cloudy around 2100. The vegetation here is well-advanced — about 2 weeks ahead of that at Barrow. Eriophorum is headed out in white tuffs, Carex is blooming and shedding pollen profusely, the purple Pedicularis is in full bloom, Petasites is blooming, Dryas is in full bloom, Vaccinium vitis-idaea is blooming, Ledum is just beginning to bloom, Willow catkins are mature, and many other flowers are seen. The vegetation has a definitely greenish appearance in distinction from the general brown look which still prevails at Barrow.

At 1500 Brock and I went out to set traps on the two farthest transects T7 & 8. While we were out there, four caribou came by and Joe shot one of them near our lines. We walked over after we were finished and helped him carry the meat back to camp. In exchange for 5 lbs of sugar and 3 lbs of coffee, we got the hindquarters. The animal was a yearling. This meat

T. Cade
1958

General Account

25 June - Meade River
will come in handy, since an error was made in our food list, and we were left in the field short supplied on staples such as meats and vegetables.
After dinner, around 2000, we rowed across the river and set out traps on T 6, which is situated in the dwarf willows growing along the river.

26 June -Meade River Coal Mine - Went out at 1000 to check trap lines. No catch. Returned to wannigan at 1135. Then went across the river to check T 6 - 1200-1230. At 1330 I went walking southwestward from the village and made a circle around the lake country and back along the brink of the river. Returned at 1700. Covered about 3 miles. At 2000 I went out to run T-7 & 8 again while Brock went across the river to run T 6. Returned 2130.
Weather intermittently clear and cloudy - clear mostly from 1200 to 1700. Thunder clouds and rain in the distance southward and westward in the late evening. Mosquitos quite bothersome today. Many insects are out.

T. Cade
1958

General Account

27 June Coal Mine - Meade River, Alaska

This morning Brock and I tried to go up river in the ARL boat with a 7½ horse motor. Unfortunately the river was too low for crossing the numerous bars, so after making about 5 miles and breaking three shearing pins, we gave it up and came back. We had to row the last mile or so because we ran out of shearing pins. We left camp at 1045 and returned at 1600.

In the meantime, a Wien plane came in and left us some additional supplies - meat and mosquito repellent. Another plane came in around 1700 - two CAA fellows from Barrow, who were out hunting caribou.

At 2045 I crossed the river to run TL while Brock went out to T7&8. Returned at 2200.

Weather today about the same as yesterday - intermittently cloudy and sunny in the morning - mostly sunny and warm in the afternoon, with solid overcast and rain in the distance toward the mountains in the late evening.

Went out for short walk around camp from 2300 to 2345.

28 June - Rain throughout most of the night. Still overcast in the morning. Strong westerly wind with some rain beginning 1245. Went out

Cade
1958

General Account

28 June - cont-
for walk locally from 1100 to 1245.
Intermittent rain squalls continued all day.
At 1400 Brock and I went out to take up the traps on T 7 & 8 and set them out on T 3 and 4. T 4 could not be located, so we set out a line of traps parallel to T 3 but running along the base of the ridge. The ground cover has a strong component of Cassiope, as it is in an area where the snow is slow to melt off. Also dwarf willow is common. Otherwise there is a good stand of sedge and grass and the area shows heavy winter use by microtines - numerous nests and much cuttings lying about. Appears about as heavily eaten last winter as the area near T 6, which I wrote about yesterday. Will examine nests in this area tomorrow. Several had hair around which looked like Microtus. The inner core of these nests was made up of "chopped" stems - ie short pieces ca ¼ inch long rather than whole intact stems and blades as in the nests around Barrow. This may possibly turn out to be a way of distinguishing the winter nests of Lemmus and Microtus. We also set out traps on T 1. Returned to camp at 1705.

Cade
1958

General Account

28 June cont

At 1920 we crossed the river and took up the traps on T6. We caught an adult ♂ M. *oeconomus*. Then we set out traps on T2. Returned to camp at 2045.

29 June Went out to check transects 1 & 2 at 1305. Returned to camp at 1410. Went across the river again at 1520, walked around in the marsh-lake terrain and up onto the high-center polygon upland beyond. Returned to camp at 1720.

Weather intermittently clear and cloudy with solid overcast developing in the late evening.

0 June - Brock and I went out at 1325 to check the traps on T 3 & 4. From there we continued on down the river for about two miles, passing the old village site of Atkasuk and keeping mostly to the high "barrens" type ground along the sand bluffs which front on the river. This habitat is a riot of blossoms now - lupine in full bloom, several kinds of Pedicularis, two kinds of vetch, Cassiope, Dryas, Papaver, Ledum, and many others which I do not know. We returned to camp at 1735.

Went out at 2125 to check T1 & 2.

Cade
1958

General Account

30 June cont-
Returned to camp at 2230.
Weather mostly overcast all day with some sun in the afternoon. Little or no wind. Light drizzle around 1400 for a few minutes.

July - Went out at 1250 to run traps on T 1 & 2. Returned to camp at 1420. Porter Lochart flew the Wien plane in on the regular mail run around 1530. He had a note from Brewer telling us to load on anything that we were not going to use further in order to save on flight time tomorrow when Fisher comes in to take us out. We loaded on the outboard motor, some fuel, and a box of live traps.
At 1810 Brock and I went out to take up the traps on T 1 & 2, 3 & 4. Returned to camp at 2030.
Weather today mostly clear and warm with strong NW wind.
As to relative abundance of shorebirds in this area, I would give the following rank from most abundant to least common: semipalmated sandpiper, pectoral sandpiper, red phalarope, golden plover, northern phalarope (possibly not as breeding population), black-bellied plover, dowitcher, dunlin, and turnstone,

T. Code
1958

General Account

1 July - cont -
Possibly the red phalarope should come before the pectoral sandpiper, and possibly the dowitcher before the black-bellied plover - each of these two couples are close to the same in numbers, ie red phalaropes and pectorals are both quite common and black-bellies and dowitchers are both uncommon but by no means rare.

As to passerines, the longspur is most abundant - the single most abundant species - the redpoll is probably second, then the snow bunting - locally of course quite common about the village - fourth, the savannah sparrow, and fifth and much the rarest, the yellow wagtail.

Of water fowl old squaws seem to be somewhat commoner than pintails. Old squaws are paired whereas nearly all the pintails are hens.

July Meade River to Barrow, Alaska

Bobby Fischer flew in at 1045 to pick us up. We finished cleaning up around the wannigan, gave the remainder of our perishables to the Eskimos, and departed at 1130. Arrived Barrow at 1215. Flight was bee-line from Meade to Barrow traveling

Cade
1958

General Account

July cont
between 600 and 200 ft altitude. Good visibility all the way.
Spent rest of the day around the lab, getting cleaned-up, writing letters, etc.

July Barrow, Alaska
Brock, Tommy Sovalik and I went out in the afternoon to gather the sample materials from three of the plots which we set up for Schultz. Unfortunately it began raining while we were out, and we were unable to finish, Tommy Sovalik will complete the work when the weather is more favorable.
Brock and I had gone out in a weasel earlier in the morning, to set traps in the Voth area, but the weasel broke-down (starter trouble) on the way out, and we had to return to the lab.

July - Misty and foggy all day. Visibility at ground level very poor. Stayed around ARL all day.

5 July - Brock and I went out to the Voth area at 1300 and set out traps on T 3 A & 3B. Returned around 1530.
Tim Myres came in from Woods' camp

Cade
1958

General Account

Weather mostly overcast all day.

on the Colville delta to spend a week at Barrow looking at Steller's eiders. He reported looking into a few lemming nests in the delta area and finding some with the remains of dead lemmings inside. There is one nest of Parasitic Jaegers in his area also but he has seen no live lemmings. An interesting new record of his is a specimen of Harris' Sparrow. Also he has found Green-winged Teal nesting in the delta.

6 July - Went out with Brock and Myres at 1300. First we ran the trap lines T3A & B and looked over the ground where the other transects are located in the Voth area. Then back through camp and out over Black Ridge, through Central Marsh, along Wolschlag Slough, then south toward the gas well and back along the gas line. Returned at 1600. A conspicuous dearth of birds was evident by comparison with our encounters in these areas prior to our trip to the Meade. On this three hour drive we saw not one Pectoral Sandpiper, not one Golden Plover, and not one Turnstone. The former two were previously

Cade
1958

General Account

6 July - cont
quite common in all these areas.
We saw 3 Red Phalaropes, 2 ♀ together and one isolated ♂, whereas previously there had been hundreds around in all areas. We saw 6 dunlins - most of them around the Vath area, and we saw two longspurs. There was a scattering of Old Squaws - pairs & groups of 4-5, 3 Red-throated Loons, some jaegers, and one flock of 11 ♀ & 10 ♂ Steller's eiders. I have never seen these areas so bare of bird life - especially in the passerine and shore-bird categories. It will be interesting now to see what turns up here in the fall. Weather today was bright, clear, with cold east wind.

7 July Barrow to South Barrow Three -
Made a trip today with Max Brewer, Tim Myres, and Vaughn Sherman to South Barrow Three. Total distance travelled was 13 1/2 miles. We left at 1200 and returned at 1900. I kept a count of all birds seen on the trip south to the well, and notes on other occurrences during the return trip. The following is the itinerary of the trip:

Cade
1958

General Account

7 July cont

1200- left Barrow in weasel, traveling toward Voth area and out to gas well- sky clear- excellent visibility.

1 dunlin, 2 pectoral sandpipers, 1 snow bunting, 1 old squaw,

1215- at the end of the salt lagoon going up stream into Voth area

1 snow bunting

1231 at the gas well- continuing south

2 red throated loons, 1 jaeger sp.?, 1 red phalarope, 2 pectoral sandpipers, 1 red phalarope, 1 longspur, 3 red phalaropes

1255- at NE end of Ikroavik Lake, traveling down east side on narrow stretch of high ground between it and another lake-

2 glaucous gulls, 1 red phalarope, 1 black parasitic jaeger, 12 semipalmated sandpipers in a flock, 3 pectoral sandpipers, 1 red phalarope, 2 dunlins, 2 red phalarope, 65 old arctic terns at SE corner of Ikroavik, none apparently nesting, 1 glaucous gull, 2 pacific loons, 2 Baird Sandpipers, 12 red phalaropes, 2 Sabine Gulls, 1 red phalarope, 16 more terns, 1 longspur, phalarope nest, 1 parasitic jaeger, 1 red

Code
1958

General Account

7 July -cont-
phalarope, 15 pintails, 4 northern phalaropes, 2 red phalaropes, 5 pintail, 1 Pacific loon-
1330 - leaving the south end of Ikroavik Lake - heading southward
1 Baird's sandpiper, 1 longspur, 1 dunlin, 1 parasitic jaeger, 1 snow bunting, 1 tern, 2 pacific loons on a lake, 8 red phalaropes, 2 ♀ eiders (Spectacled or King?), 2 glaucous gulls, 2 red phalaropes, 3 black parasitic jaegers, 3 red phalaropes, pair of old squaws, 2 pacific loons, 1 red phalarope, 2 longspurs, 2 dunlins, 1 red phalarope, 1 semipalmated sandpiper, 1 golden plover, 1 dunlin, 1 northern phalarope, 1 jaeger sp?, 1 glaucous gull, 1 jaeger, sp?, 2 red phalaropes, 1 black parasitic jaeger, 5 red phalaropes, 1 male? snowy owl, 1 longspur, 1 pintail, 5 pectoral sandpipers, 9 red phalaropes, 2 dunlins, 1 dead glaucous gull,
1430-1445 - 1 pectoral sandpiper, 2 red phalaropes, 1 pectoral sandpiper, 1 longspur, 3 dunlin, 1 semipalmated sandpiper, 1 pectoral sandpiper, 5 red phalaropes, 1

Cade
1958

General Account

7 July -Cont-
longspur, 1 snow bunting.
1445 - arrived at South Barrow Three.
~~1700~~ 1645 - touring around lakes just S of the well -
1 pacific loon nest, ♀ Spectacled eider,
1700 returning to Barrow
2 Parasitic jaegers, 22 ♀, 3 ♂ Steller's eiders,
1900 back at ARL.
Totals of birds seen:
Red phalarope - 63 (one way)
Longspur - 7 (one way)
Snow Bunting - 4 (one way)
Pectoral Sandpiper - 12 (one way)
Semipalmated Sandpiper 15 (one way)
Baird's Sandpiper - 3 (one way)
Golden Plover - 1 (one way)
Northern Phalarope, 6 (one way)
Glaucous Gull - 6 (one way)
Sabine Gull - 2 (one way)
Parasitic Jaeger - 9 (both ways)
Jaeger unidentified - 2 (both ways)
Dunlin - 11 (one way)
Other species not totaled here.

T. Cade
1958

General Account

8 July Barrow to Umiat

Slept late after Max's party and boarded the Wien plane for Umiat at 1400. Sat by Vick Hessler from the Geophysical institute. Arrived at Umiat at 1515, accompanied by Chester Lampe. We were met by Harold Griffin, who was putting his wife on the plane to go outside for their two boys.

Spent the rest of the day getting set up at Umiat, writing up notes etc. We are staying with the Griffin's at the radio station rather than going up to the USGS quonset, which is in a mess. We are also eating with the Griffins. There is one other Wien man here, Don Crumley, who is Harold's helper.

9 July Umiat, Alaska

Chester and I went out in the ARL jeep at 0900 to set traps on T 1 & 3 and T 5 & 7. At 0915 we were stuck in a washout on aligator road and had to return to camp for help. At 1000 we were on our way again in Hal's weasel. He took us up to T 1 & 3 and dropped us and the traps off. We set those lines, and then walked down the hill to T 5 and 7 to set those. Then

Cade
1958

General Account

9 July -cont-

we walked over to aligator road to the jeep and back to camp at 1600.

Spent the rest of the evening in and around camp. Set out a mist net near the airstrip in the area of T6.

The vegetation here this year is as lush as I have ever seen it - comparable if not better than the season of 1952. Eriophorum vaginatum tussocks have flower stalks averaging 10-12 inches high with 4-8 stalks per tussock. The tussock heath tundra on the hill sides is conspicuously whiter in aspect than either 1956 or 1957. Also the alders are heavily loaded with new cones this year. Rubus berries are numerous, as also cranberries, blue berries are common in patches, and Arctostaphylos berries are numerous. All of these have been inconspicuous in 1956 and 1957. All vegetation has put on conspicuous new growth this year. My weasel trails out to T5 & 7, so conspicuous in 1956 & 1957, are hardly to be seen this year. Only the old cat & LVT trails are showing on the tundra this year.

The season has been warm with quite

T. Cole
1958

General Account

a bit of rain. Spring was early - the ice went out on the Colville on 19 May - and the winter was mild.

One feature of the winter that may have been important to microtines was the light snow fall. Harold says that the heads of the Eriophorum tussocks were exposed above the snow all during the winter.

Weather today warm but mostly overcast all day with some sunshine in the early afternoon.

10 July Umiat, Alaska - Chester and I went out at 0900 to run the trap lines. Back in camp around 1400. Spent the rest of the afternoon skinning and writing notes.

Weather again warm but mostly overcast except between 1200 & 1500.

' July Umiat - Chester and I went out at 1000. Jeep stalled half way out alligator road. Walked the rest of the way and back to camp. Returned 1430. Spent rest of day skinning & writing notes. Leona Griffin returned today with the two boys, Bobby & Donnie. Also Pete Mereck came in, and two men from

T. Cade
1958

General Account

1 July – Cont- ARL, Don ~~Winslow~~ Wilcox, and a Mr. ~~Walt~~ ~~Boop~~ Walt Radke, from CAA.
Weather was very warm today – high 70's – but again mostly overcast with a few drops of rain around 1400.

2 July – Umiat-
Chester and I went out at 0900 to take up the traps on T 1, 3, 5 and 7. We returned to camp at 1500. Spent the rest of the afternoon skinning and writing notes.
Paul Tietjen and Bobby Fisher came in around 1900 with ARL's new Cessna 180 on floats. It is a beauty. They picked up a load for the Jago camp and took right off again.
Weather today was partly overcast – mostly clear and hot – some NW to N wind in the morning but deadly calm all afternoon and evening – mosquitos having a holliday.

3 July Umiat – Chester and I did not go out to set traps this morning because the hot still weather continues and the mosquitos are the worst I have ever seen here. We will wait for the cool of evening.
At 2100, Chester, Hal Griffin and I went

T. Cade
1958

General account

13 July - Cont -
out with the weasel and jeep to set out traps on T2 & T10. We took both vehicles because I wanted to see how far out I could take the jeep without getting stuck. Fortunately it is possible to get it all the way down the road to Old Chipat, which puts us within easy walking of the trap lines. Hal then took us on over the rough stuff in the weasel. Wilcox and Rudke came along, and while they went walking along the ridge, we set out the traps.

The vegetation along T2 is conspicuously higher than in 56 or 57 - especially in the low center sedge-grass marshes where this year's growth is almost twice as high (ca 18-20 inches) as previously. In the past the vegetation has not grown above the tops of the stakes, but this year all the stakes are hidden below the crown of the grasses and sedges. Also, despite the fact that this has been a wet summer, this line is drier in the low centers than in 56 or 57. Some stakes are standing in water about 2" deep, but none of the sites are really flooded as in the past

. Cade
1958

General Account

13 July -cont-
We returned to camp at 2400.
Thunder clouds began to develop in the late afternoon today, and there were some brief heavy showers between 1600 and 1900, with heavy overcast continuing on into the evening and night.

July — Umiat - Chester and I went out in the weasel to pick up the jeep, which we left at Old Umiat last night — at 1000, Then we set out traps on T8. Returned to camp at 1200.
In the afternoon we set out traps on T9, and I skinned specimens.
Hal Griffin took us out in the weasel after dinner to run the traps on T2 & T10.
Weather mostly overcast all day but still and warm.

5 July — Umiat, Chester ran the trap lines this morning while I skinned and wrote notes. We went out together in the evening, using the jeep to drive over near T2 & T10. Weather mostly overcast with some sunshine in the early afternoon.

16 July, Umiat - Chester ran the trap lines this morning while I skinned. In the afternoon Hal took us in the weasel over to the range station about 2 miles W of Umiat. In the evening

T. Cade
1958

General Account

16 July - he also took us over to T 2 & T 10 and helped us pick up the traps on those transects.

Weather mostly overcast with some sunshine in the afternoon.

[margin:] ... overcast + rain between 1800–2400.

17 July - Umiat - In the morning Chester and I set out traps on T4 and T6 and took up those on T 8. In the afternoon we took up those on T9. In the evening we moved the mist net to a new location in tall willows at the mouth of Seabee Creek, where a family of shrikes is situated. Since July 10th, this net has taken a total of ~~4~~5 birds as follows:

Acanthis hornemanni - 10 ad, 5 juv.
Spizella arborea - 13 juv 8 ad.
Passerculus sandwichensis 3 juv, 1 ad
Motacilla flava - 2 juv.
Lanius borealis - 1 ad
Calcarius lapponicus - 2 juv.

[margin:] Weather - mostly overcast all day ~~foo~~ + and somewhat cooler than previous day.

July - Umiat

Chester and I ran the trap lines in the morning and checked the mist-net. In the afternoon we helped Griffin work on the weasel, which had thrown a track down by the float-plane landing. We finally had to drag it out with the cherry-picker.

T. Cade
1958

General Account

18 July -cont-
Andy Anderson came in in the afternoon with a passenger, a Mr. Titus, to wait for clear weather to Barter Island. Chester checked the traps again in the evening.

19 July, Umiat
Spent part of the morning looking around in the territory of the shrikes for food remains. Then Chester and I ~~took up~~ ran the traplines. In the afternoon we helped Hal some with repairs on the weasel.

Weather - mostly overcast with broken sky - some sun in the early afternoon. Salmon berries are beginning to ripen now - also a few blueberries are coloring as well as cranberry.

20 July Umiat -
Chester and I took up the traps on T4 and T6 in the late morning. I skinned in the afternoon while Chester again helped with the weasel.

In the afternoon I again visited the shrike territory.

In the evening we took a ride in the weasel down by the dump and out along the river over the gravel bars a ways.

T. Cade
1958

General Account

20 July – Weather - mostly overcast, still and cool compared to previous days. Mosquitos appear to be decreasing in numbers somewhat.

21 July Umiat - Waited around all day for news about when Bobby Fischer would fly up from Barrow to take us up the river. There were several changes of plane, but he finally arrived late in the evening around 2330. We made preparations to leave at once.

Earlier in the afternoon, Hal, Chester and I went out berry-picking. We each picked a 5 lb coffee can full in about an hour - salmon berries. Have never seen such a year for them. About 60% of the blueberries are also ripe now. This berry crop will go almost completely to waste as far a ptarmigan are concerned because there simply are no birds around to utilize the berries.

2 July Umiat to Colville River above mouth Oolamnagavik. - Harold Griffin and I took off from Umiat with Bobby Fischer at 0105, flying in ARL's new float plane. At 0130 we saw a caribou, at 0137 we saw a moose, and we landed on the Colville at

T. Cade
1958

General Account

22 July . Colville River

0145 at a spot about 2 miles above the mouth of the Oolamnagavik. While Bobby flew back to Umiat for the rest of our supplies, we hiked over to the bluff on the right limit (first one on the right above the Oolamnagavik) and found a pair of rough legs nesting. Bobby returned at 0300 and departed again at 0340. At 0550 we had the boat (18 ft Kalamazoo) assembled, loaded, breakfast eaten, and were ready to depart down river with a new 5 1/2 horse kicker. Day bright and clear. At 0605 we stopped at the bluff on the left limit just above the Oolamnagavik to look at rough leg nest. Departed upper part of bluff at 0715 and landed below at 0725 where Peregrines were seen. Departed this station at 0930. Passed mouth of Oolamnagavik at 0934. Stopped at 0945 at the first cliff on the right limit below Oolamnagavik - peregrines. At 1120 we moved on down to a pair of rough legs ca 150 yds below. At 1225 we departed this station. Stopped at the lagoon by the long series of outcrops

at 1245 on the left limit in bend of river. A

T. Cade
1988

General Account

22 July Colville River
thunderstorm was approaching, so we unloaded the boat, covered the goods with it and got ourselves under a tarp to wait out the rain. We slept until about 1700, at which time the sky was clearing, after brief heavy downpours. We ate dinner and then hiked over to the bluffs, where there were two pairs of rough-legs only 1/4 mile apart. At 2205 we were loaded again and moved on down along the bluffs to the Peregrine's area. Stopped at 2215. Departed 2320 - at 2330 we passed by the upper Killik bend bluff, then the middle, and we stopped to camp at 2355 on a bar opposite the lower Killik bend bluff, where we saw rough-legs and peregrines. Total travel time today = 95 minutes.

23 July Colville River - We slept dry last night. At 1130 we crossed the river to the roughleg nest. Then up to the peregrine's area. At 1355 we were off down river. Passed the Killik River at 1412. At 1430 we stopped by the series of little cut scarps behind a slough - first on the right limit below the Killik (where gyrs nested last year).

T. Cade
1958

General Account

23 July Colville River
Roughleg was present here but no nest. Departed at 1520. Stopped again for geese at 1600. Off again at 1615. Stopped for more geese at 1630 Off again at 1645. At 1655 we cruised around the 1952 gyr cliff (raven's nest). Saw pair of roughlegs but no nest present. On down river at 1725. At 1930 we stopped at the double knife blade ridge where roughlegs and peregrines were nesting. Resumed travel at 2050. Stopped on right limit at the '56' gyr cliff at 2110. Resumed travel at 2120 and stopped again at 2125. Off again at 2230. Stopped to camp on left limit at 2240 - opposite last of the series of little outcrops on right limit. Peregrines in this area. Ate dinner and went to sleep under the tarp as thunder storms were passing around us. It rained off and on during the night but we kept dry under the tarp. Total travel time today = 260 minutes.

24 July Colville River
While preparing to load the boat at 1315, a slight breeze came up and blew

T. Code
1958

General Account

24 July — Colville River

the Kalamazoo out into the main current and off down river. We neglected to moor it before leaving it in the water to return for our goods. As we were on an island, we could not immediately get to shore to follow the drifting boat. It soon disappeared around a bend in the river. We managed to wade across the left channel of the river and were fortunate enough to find the boat grounded about 1/2 mile below camp but on the opposite side of the main stream. While Jeal remained to watch the boat, I returned to camp for life jackets, boots, and oars. We each put on a life jacket and took one oar and then swam across the river to the boat. The current was strong, and we drifted about 1/4 mi downriver before we got across. Then we paddled the boat back across the river and lined it up along the left limit back to camp. We got back into camp with the boat at 1700. At 1915 we were loaded and crossed the river to investigate the plugquins.

T. Cade
1958

General Account

24 July ~~the~~ Colville River
At 2045 we proceeded down the river. At 21 00, we stopped on the right limit to glass over an in land outcrop of sandstone ca 1½ miles away from the river. A pair of peregrines and one roughleg was seen but we did not go over to investigate. Travelling again at 2115. At 2215 we stopped for geese. Resumed travel at 2225 At 2315 we stopped to make a camp on a gravel bar opposite a low outcrop on the left limit where peregrines were seen. Total travel time today = 135 minutes.

25 July Colville River - We slept day at this camp ~~and~~ did not unload the boat. The river came up about ~~1~~ ft during the night. At 1050 we crossed the river to look at the peregrines. At 1125 we were off down river. At 1225 we were along the last high bluff on the left limit before Umiat. We stopped here for peregrines. Resumed travel at 1400. At 1500 we were in the lagoon along the high right limit bluff (2nd above Umiat). At 1545 we were off again.

T. Cade
1958

General Account

25 July Colville River
At 1610 we stopped for geese. Off again at 1620. Stopped at 1630 at the last high bluff on the right limit before Umiat. Off again at 1820. Stopped at 1845 at the coal seam bluff where both peregrines and rough-legs were seen. Resumed travel at 1940 and we put in at the float plane landing at Umiat at 2030. Total fuel consumption was just over 13 gallons. Total travel time today = 180 minutes - Total travel time for trip =

180
135
240
95
___
670 minutes = 11 hours & 10 minutes

26 July Umiat - Spent the day packing up gear, specimens, boat, etc. for return to Barrow tomorrow.

27 July Umiat to Barrow - boarded Wien 345 at 1115 at Umiat and arrived Barrow at 1210. Spent the day resting up in lab, writing notes and correspondence, etc.

28 July Barrow - Went out with Brock in the afternoon to set out traps on T1&2 and T9&10.

T. Cade
1958

General account

28 July - cont
Spent rest of the day in the lab.

9 July - 1 August In lab most of time writing up notes, processing specimens. Running trap lines with Brock.

August Barrow to Okpilak Lake.-
0953 left Barrow with Bobby Fischer and Harry Sherman.
1125 - we flew past Ocean Point on the Colville.
1205 we were down at the Franklin Bluffs camp on the Sagavanirktok River. There we were met by John Koranda, Lowell Douglas, Sam Slushman and John Thompson. While Bobby flew our gear and Sam on over to the Okiktok camp, I stayed at the Saga for the afternoon, and Koranda took me to see the local breeding pair of peregrines and rough-legged hawks.
Bobby returned about 1700. After dinner he and Thompson and I departed at 1854. We arrived at the Okpilak camp at 2022, and there we were met by Jerry Brown, Bill Malcom and Sam. As the mountains were fogged in, Bobby decided to spend the night before

T. Cade
1958

General Account

August - cont -
heading back to the Saga.
The Oliktok camp is situated at 2000 feet by a lake in the river valley, which at this point has steep walls rising up on the east side more than 1000 feet. From this point the river leads directly back into the mountain province proper. There are alluvial fans all along the sides of the valley and glacial moraines are frequent. The scenery is definitely alpine and quite spectacular. Jerry Brown reports that he has seen microtines frequently along the edge of Okpilak Lake and in the wet areas of the valley between the alluvial fans just south of camp.

August Okpilak River - Jerry Brown and I spent most of the day walking up river 3½ miles to the locality where Ed Sable and John Cantlon reported finding jays nesting. We walked along the right limit - keeping pretty close to the river on the way up. On the way back we traversed the alluvial fans along the side of the valley and at the foot of the steep rocky walls. About 2 mi above camp there is a sizeable stream

Code

General Account

3 August - cont -

coming down along the north side of an alluvial fan. Along this stream there is a stand of felt leaf willows which reach heights of 15 feet in places - gradually becoming shorter toward the head of the stream. This is the largest stand of "tall brush" in the immediate area - ca 1/2 mi long. Stands of dwarf shrub are frequent both on the sides of the valley and on the floor.

In the evening, I set out a mist-net in a steep sided, dwarf-brush covered drain, about 20 yds wide & 5-8 feet deep, which runs into OKpilak Lake.

Also set out a line of traps along the margin of OKpilak Lake.

Weather was mostly clear from 1000 on. In the early morning there had been fog over the upper part of the valley obscuring the higher walls. There was some light rain during the night

August OKpilak River - another bright, clear day.

Spent the day setting out two more transects, one on a low, inter-alluvial fan area - mostly sedge-grass swale, and one on the steep alluvial fan just back of camp, and working on specimens and writing notes.

T. Cade
1958

General Account

4 August - cont -
In the late afternoon I walked around Okpilak Lake.

7 August Okpilak Lake - In and around camp on all three days, running trap lines and skinning! Ed Sable and his assistant, Ralph Bunnel, came in from their spike camp on the evening of the 5th. Bobby Fischer came in on the evening of the 6th with Bill Kelly, a geologist from U. of Michigan, who is out to check over Ed's problem. On the 7th Thomson and Shurlgan flew back to Barrow with Bobby, and Malcom and Brown left on a hiking trip across the divide to the Jago camp.

Weather was mostly overcast on 6th & 7th - especially in late evening and early morning but no rain yet.

Phenology: the last of the salmon berries are now ripe. Cranberries are reaching full ripeness. Willows are turning yellow. Arctostaphylos reddening. Birch just beginning to show some color.

8 August Okpilak Lake - Spent the morning writing up notes. At 1300 I went walking up river to the creek with the high stand of willows about 2 miles above camp = Contact Creek of

T. Cade
1958

General Account

8 August -

Sable's range (where the granite contact occurs). I removed the mist net from the location in the drain south of the lake to an opening along Contact Creek between two stands of willows. About 1500 a thunderstorm came up, and it rained moderately for about 30 minutes. Walked up one of the rock stripes above the willow-lined creek, traversed back across the alluvial fans to the Lisbourne limestone outcrop, where I had left the shrike's nest by mistake on the 3rd. Found it. Returned to camp at 2030.

August Okpilak River - Took a long walk up the river and into the high country today. Left camp at 1100 and returned 2200. On the way up I set out T4 in the flood plain of the river about a mile upstream from camp - along an old channel of the river now completely covered with vegetation - mostly of barrens type but also dwarf shrubs - willows and some wet grass-sedge areas in the old stream bed. Ground looks good for M. miurus. I followed up the river to Contact Creek and then up Contact Creek to the divide between the two lateral branches of the creek. Following

T. Cade
1958

General Account

9 August - cont -

Sable's directions I traversed up this divide and came finally out on top of a saddle at 5,000 feet over looking a high meadow where he had seen sheep several times. They were there today too! Spent some time along the saddle and out in the meadow collecting birds. Returned via same route. All along the way - clear to 5,000 feet sign of microtine activity was frequent. On Contact Creek shrubby willows gradually peter out at about 3,000 feet. From that point on all the vegetation of the slopes and ridges is essentially low stature - decumbent stuff - of the "barrens" type. Meadows of grass and sedge are local in occurrence and of limited size - few hundred acres at most. Microtine sign (M. miurus?) was more abundant on the slopes and ridges than it was in the high meadow where one might expect to find Lemmus and M. oeconomus. In fact, very little fresh sign was seen in the meadow, and it seems probable that these high meadows are populated with Lemmus and M. oeconomus only during years of

T. Cade
1958

General Account

[9] August - cont -
relatively high density in the lowland meadows along the river valley - serving thus as "spill-over" areas to accommodate surplus animals from below.

[10] August Okpilak Lake - Rain storms began about 0600 and have continued off and on late into the morning - sometimes quite heavy. - Note-writing time! Cleared up shortly after noon. Set out traps on T5 and T6 and spent the rest of the day skinning.

[C]harlie Keeler [ca]me in from the [Ja]go camp - down from the glacier on a short visit.

11 August Okpilak Lake - clear and warm day. Ed Sable, Bill Kelley and Ralph Bunnel left in the early morning on a spike trip across the river to the aufeis about 3½ miles up the River. Charlie Keeler returned to the Jago camp at 1200. I spent the day in and around camp running the trap lines and skinning.

Max Brewer and Max Britton flew in with Bobby Fischer around 1500. They were here for about an hour and then flew on over to the Jago.

12 August Okpilak Lake - in and around camp all day by myself running trap lines and skinning. Strong southerly winds - catabatic - in the afternoon - otherwise

T. Cade
1958

General Account

12 August -

weather fair and warm. Nights get down to freezing for a little while now - for about a week. Day time temperatures in the 70's - even to 80° one day. All in all the most pleasant part of the summer.

13 August Okpilak Lake -

Spent the morning getting packed up to go over to Jago Lake. Then took up the traps on the two remaining lines. Ed Sable and Bill Kelly came in around 12:30. We were expecting Bobby Fischer to come in momentarily but he did not show. Spent the rest of the day messing around camp waiting for him. We took down one of the tents, rolled up the fish net, burned trash and cleaned up around camp some. Day generally shot. Weather warm and clear again.

14 August Okpilak Lake - Another bright, clear and warm day. No airplane. Spent the day around camp waiting. During the night Jerry Brown and Bill Malcom came in from the Jago to see if we were still here.

15 August Okpilak Lake - Heavy fog with some rain overcasting all day long with

T. Cade
1958

General Account

15 August -
no visibility for flying - no plane.

16 August Okpilak Lake - Again solid overcast all day long, with ceiling 500-100 feet and less. Very poor visibility to the north.

17 August Okpilak Lake - Overcast and fog still continuing into early afternoon. Fog remained again all day but tending to break up some around midnight

18 August Okpilak Lake - Jugo Lake
The weather continued to ameliorate in the early morning. Ground fog was heavy locally until about 0800 but the thick soup from the coast was mostly gone. High overcast. Bobby finally was able to come in around 1000. We were ready to go around 1100, and he flew me and my gear over to the Jugo Lake camp. There I am to rendezvous with Bill Malcom around 23rd. He will be working his way over on foot from the Okpilak. In the evening I set out traps on T4 of last year and walked around to visit the other transects. There appears to be again no ~~other~~ microtine activity along T1, so it will not be run in the time I have. Activity is conspicuous along the middle

Cade
1968

General Account

18 August - cont-

part of T2, and along the first half of T3. Activity is difficult to determine on the hard rocky areas covered by T5 & 6.

August, Jago Lake

In the morning I set out traps on T3, walked up to the little lake ca 3/4 mi above Jago, out into the flats a mile above camp and back along the river. Also set out the mist-net in the same brushy area as last year - just below the little lake along the stream bed leading out of it down hill.

In the afternoon I skinned some specimens and walked around Jago Lake.

August Jago Lake

After running the trap lines and checking the mist-net, I walked up the river following the floodplain to the first large creek coming out of bed rock on the left limit about 2 1/2 miles above camp. Walked up this creek spending an hour or so in the willow brush area ca 500 ft by 300 ft in area - same stuff 5 ft tall but all scattered stands. Then returned over the high moraine back to camp. Left at 1100 and returned at 1545.

Ran traplines in the evening.

T. Cade
1958

General Account

21 August, Jago Lake
Ran the trap lines and net in the morning and spent most of the rest of the day skinning and writing field notes.

Weather: bright and warm all of 19th & 20th. Thunder showers out of the mountains today beginning about 1300 and continuing off and on all afternoon. Cleared up around 1700. Fresh snow on the high peaks.

Took up the traps on T4 in the evening.

Bill Malcom came in from the Okpilak at 2200.

22 August Jago Lake - Took up the traps on T3 in the morning and set out traps on T2 and T6. Sky clear in the morning but becoming overcast around 1200 and continuing so all afternoon.

Ran traplines again in the evening.

23 August Jago Lake
Ran traplines in morning and evening and skinned. Walking in vicinity of lake. Partly clear day but becoming overcast with ground fog in the evening.

4 August Jago Lake
Ran trap lines in the morning and evening. Skinned. Took a walk with Malcom around Jago Lake. Mostly overcast today with moderately heavy rain in the afternoon.
Took down mist-net in the evening.

T. Cade
1958

General Account

5 August Jago Lake

Took up the traps on T2 & T6 in the morning and packed up some of the gear in anticipation that Bobby Fischer would come in today, but the weather was overcast again today, and he did not arrive on schedule. Spent part of the day skinning and writing notes. Rain again in the afternoon.

6 August Jago Lake - again waiting it out for Bobby. Weather is partly clear this morning - good enough for flying. Phenology: cranberries fully ripe for a week now - also crow berry. Salmon berries all gone - blue berries also mostly gone. Arctostaphylos deep red all over - birch mostly red - still green in protected areas among rocks and on steep banks. Fall colors generally prevail.

Ed Sable came in from Okpilak around 1300.

August Jago - Barrow - In the morning Malcolm and I walked down river to the large terrace meadow - marsh about a mile below camp. Returned along the river, arriving back at camp around 1200.

Bobby Fischer came in around 1230. He took Malcom and our load of gear over to Okpilak; then came back and shuttled

T. Cade
1958

General Account

27 August - cont

me over. From there we took off with a full load and flew to Barter Island for refueling before going on to Barrow. Arrived there at 1430. Took off around 1530 and arrived Barrow about 1830.

8 August Barrow - spent the day in the lab.

August to September Barrow - in and around the lab on all these days. On 1st Childs and I gathered the final three samples of material for Schultz.

September Barrow to Meade River -

Merl Solomon and I left with Porter Lockhart for the Meade River Coalmine at 1106. We arrived at 1145 about. Merl and I are to be on the Meade for a week to carry out the second running of the traplines. In the afternoon we set out traps on the two lines by the big lake about a mile NW of the village, and also on the one in the willows on the other side of the river. In addition we set out another line (new) across the river on the wet terrace land parallel to the willow zone.

At 16 30 I took a walk about 2 miles south W of camp and return

T. Cade
1958

General Account

25 September - cont -

at 1830. It was overcast all day with sprinkles in the afternoon, turning into intermittently heavy showers after 2000.

September Meade River at the Coalmine - Merl and I ran the traplines by the lake NW of village in the morning. Then Merl returned at 1030 to run the two lines across the river while I walked on from there westward to the far end of the lake. Returned to camp at 1515 - covered 4-5 miles round trip. Skinned in the afternoon.

Weather overcast all morning and afternoon with intermittent light showers with some slushy snow - clearing up somewhat with sunshine in the evening after 1800.

Very few birds to be seen on the tundra here at this season - great contrast with June. Only one shorebird - aside from gulls and jaegers - seen so far. Very few passerines too. Loons more common now than in June. Shore birds - and passerines (longspurs)? - must move to the coast after nesting.

Microtine sign generally absent or very meager. Two local areas of several

T. Code
1958

General Account

September - cont -
hundred square feet each were located in which fresh runway, holes and green cuttings were frequent. One of these is located a hundred yards or so W & N of T 7 in a drainage ditch which cuts down through the high bank of the lake in that area. Numerous freshly used holes were seen on the sides of the ditch & in the bottom where there are fresh stands of grass 12-14" high runways with cuttings in them. This area is probably occupied either by L. trimucronatus or M. oeconomus. Another area was found about 1/4 mile due W of the village on up land type tundra in an area of small tussocks and dwarf willows. In the zone outlined by the dwarf willows - this is not a drainage area - runways and holes are rather frequent and fresh looking but no cuttings were seen. This area is almost certainly occupied by M. oeconomus. Will snap trap these areas later.

4 September Meade River Coalmine - Ran the trap lines in morning and afternoon and took down description of the points on T 9 and on the line which runs through willows.

T. Cade
1958

General Account

4 September - cont -

From 1700-1830 I walked south about a mile along the right limit of the river and back to the transects opposite the village. Found one area in the willow zone along a bank where there are a lot of old runways and holes — reminiscent of those made by *M. miurus*. No fresh sign here. Lupine also in this area.

Mostly clear today & mild, but the ground was already beginning to freeze by 2100 yesterday evening.

September Meade River Coalmine - Merl and I took up the traps on the first four lines and set out traps on three others. In addition I set out traps for spot-checking in four other areas as follows: (1) about 100 yds W of T7 - along the high bank of the lake. Here there are some high center "net" patterns developed with troughs 3 ft wide & 2-3 feet deep. Some of the troughs cut down through the bank as drains into the lake. Tussock-heath-dwarf willow is cover on high centers, lush sedge-grass in troughs. Numerous *old* excavations & runways

T. Cade
1958

General Account

September - cont -

along the sides of the troughs. Reminiscent of Wainwright T, e 2 in spring '57. A few fresh pellets and 1 pile of cuttings noted by a runway. 25 traps set in troughs covering an area of 50 x 50'
(2) dwarf willow area 6" to 18" high growing among small diameter (4-8") tussocks on well-drained ground 1/4 mile back of the village. This area of about 200 yds x 20 yds is literally riddled with old holes and runways twist in all directions around the tussocks. The larger willow bushes serve as loci for burrowing just as was the case at Wainwright in 1957. This ground is on a low ridge and is not obviously patterned. 30 traps set in an area of 20 x 80 feet. No fresh sign observed at any point.
(3) on right limit of river ca 1 mi above the village along the upper edge of the zone of riparian willow in an area of flat centered polygons (sedge-grass-willow cover - no tussocks) with narrow & shallow troughs - ca 4-6" wide at top & 3-6" deep - usually just wide enough at bottom to make suitable passage for

T. Cade
1958

General Account

September - cont -

microtines. M. oeconomus old holes in the sides of the troughs and at base of the larger willow bushes. Ground damp. No fresh sign seen. 30 traps set out in an area 30 x 80 feet - all of them placed in troughs.

(4) area of "very lush "nitrophilous" grasses on the slope between the village and the creek by the air strip. Area is just below where dogs are now kept. Old dog leashing area - old garbage dump - some old dwelling areas - ground well fertilized by organic materials. Runways numerous in & below tall grass & fresh droppings - piles - occur at intervals throughout. Almost certainly inhabited by M. oeconomus - very typical habitat for this microtine. 15 traps set out in an area 20 x 60 feet. Similar grassy areas occur all about the village.

Overcast all day with strong southerly & westerly winds and intermittent light rain.

6 September Meade River - In the morning we checked the trap lines set out yesterday evening, took up the spot-check traps and set

T. Code
1958

General Account

[?] September - cont -
out traps on the one remaining transect.
The areas spot-trapped last night yielded the following results: area #1 = 1 adult Dicrostonyx and 1 juvenile Lemmus. Area #2 = 1 subadult Lemmus, area #3 = no catch, and area #4 = 3 M. oeconomus. This latter area will be trapped again on the night before we leave for Barrow.

also 2 flipped traps w/ fresh droppings on them

At 1230 left on a trip down river with Merl and his uncle, David.. We took the ARL boat and David's 12 hp outboard. The following is itinerary with all birds seen on the trip -

1245 - two adult glaucous gulls
1250 - one adult arctic loon
1255 - flock of ca 50 redpolls
1303 - one adult glaucous gull
1304 - mouth of Ikpiktuk River - stopped here to look at tundra.
1317 - resumed travel.
1318 - 6 glaucous gulls, one of them juvenile. It was shot.
1330 - 3 adult arctic loons, one juvenile glaucous gull.

Code
1958

General Account

6 September - cont -

1335 - 2 adult glaucous gulls
1342 - 9 glaucous gulls, 2 of them juvs.
1350 - entering Miliaktovik River (David says it connects up directly with the Kaplak. Hence it would be possible to travel all the way from Admiralty Bay to Wainwright by a continuous inland water route!)
1400 - black bellied plover in nearly complete winter plumage.
1409 - 4 black bellied plovers - same condition.
1435 - stopping at an outcropping of coal. Look on tundra. Local Dicrostonyx sign on the upland lichen-heath high center polygons & local Lemmus sign on the river terrace adjacent to a bank covered with dwarf willow. Willows forming usual loci for burrows.
1445 - traveling again
1450 - Stop at an old broken down sled - loaded with coal. This is being pilfered slowly by the local Eskimos.
1535 - started back to Meade River village.
1544 - adult arctic loon
1550 3 " " " - one shot.

T. Cade
1958

General Account

September - cont-

1610 - 8 glaucous gulls - one of them juvenile, 7 black-bellied plovers - all on mud bar.
1615 - flock of 10 red-breasted mergansers.
1622 - 2 arctic loons at mouth of Miliaktorvik River
1630 - 3 glaucous gulls - 2 of them juveniles.
1637 - one adult long-tailed jaeger - flew into an area where juv. gull was sitting. Adult gulls came over making a lot of fuss. The jaeger flew on down river.
1653 - 2 adult glaucous gulls - rain squall hit us.
1700 - 3 adult glaucous gulls - heaviest rain now past.
1710 - 2 adult glaucous gulls
1735 - docked on beach below ARL wanigan - flock of 25-30 redpolls on the bluff.

September
Meade River - Ran traplines in morning and evening and skinned. Between 1500 and 1800, I took a walk south along the river ca 1 1/2 mi beyond village and back. Weather: overcast all day with northerly winds -

T. Cade
1958

Chuwal Account

September - cont -

intermittant light rain and snow flurries.

September Meade River - ran the trap lines in the morning. Bobby Fischer flew in with Steve .... Hal Peyton's assistant to pick up a pump and some other equipment left here by John O'Sullivan. They left around 1230. Took up the traps on the transect west of the air strip in the early afternoon. Then we set out traps in a new area as follows: an area 100 x 100 feet was chosen within the strip of lush "nitrophilous" grasses that grow on the terrace between the village and the river. This area is highly fertilized by organic matter that has accumulated from the human occupancy in the vicinity. The grass grows knee high in many places. The grass in this area is still a deep green by contrast with the yellowing condition of all other grasses and sedges of this locality. 200 traps were placed in the 100 x 100 foot plot - two to each 100 square feet - the traps were placed in runways or by holes etc. Set out between 1530 & 1630. Around 1700 we took

T. Cade
1958

General Account

September - cont-
up the traps on the two transects down river from the village. 25 more traps were set out along ditches in the area of "nitrophilous" grasses. This is designated spot-check #5.

September Meade River to Barrow, Alaska
In the morning Merl and I took up the traps from the 100x100 plot, the 25 spot-check traps, and the traps on the remaining transect. The 100 x 100 plot yielded 21 M. oeconomus. The 25 traps yielded 8 of the same.
At 1015 Bobby came in, we closed out the camp and left for Barrow at 1100. Arrived 11:38. Spent the rest of the day skinning out Microtus.

September Barrow, Alaska-
Merl and I set out traps on transects 9, 10, 1, 2, and 5 + 6 in the morning. Got the weasel stuck in a bog hole in Central Marsh. Took us 45 minutes to work it out. Although the daytime weather has been mild at Barrow all during September, the ground is freezing

T. Cade
1958

General Account

September - cont -

at night now, and this morning when we set out traps the ground was quite crunchy in places and small water surfaces had ice on them - some of it 1/4 inch thick.

September ~~Meade R.~~ Barrow, Alaska

Ran traplines in the early afternoon. Spent rest of the day in the lab. Weather heavily overcast and cool today. Some ice still standing on tundra ponds.

12 September Barrow - ran traplines in the morning and spent rest of the day in the lab. Packed up some of the remaining specimens.

September Barrow to Umiat - Took up the traps on 6 lines this morning. Left at 1345 via Wien with Chester Lampe for Umiat to make the second run of the lines there. We arrived at 1445.

After considerable bickering, we finally managed to get the use of a truck to drive out on Aligator Road. It seems that the Navy has just turned over every last piece of equipment here to Wien - including the ARL jeep. Anyway, we set out traps on T 1 & T 3 and carried traps out to T 7.

T. Cade
1958

General Account

September Umiat -

Very few birds evident in the area. A few *B. canadensis* were seen by a lake as we were landing - otherwise nothing but redpolls.

Weather - mild - in the 60's but tending to cloud up in the evening.

September Umiat - Heavy intermittent rain - with some snow flurries during the night. Overcast continued all day - cool in the high 30's, with some light snow flurries off and on all day.

In the morning we set out traps on T 5, 7, & T 9, and in the early afternoon ran the traps on T 1 & 3.

Saw 1 teal on a small lake and one cock ptarmigan near T 5 - few redpolls - heard some honkers - otherwise nothing.

Vegetation is quite brown all over now. Very conspicuous change from July.

George Riedel is now in charge at Umiat, with Glen Able as assistant.

September Umiat - Ran the traplines in the early afternoon. Snow on the ground this morning - some of it staying well into afternoon. Overcast all day.

September Umiat - Ran traplines in the afternoon - took up the traps on T 1 & 3 and set them out on

T. Cade
1958

General Account

Sept - cont -

T 2 & 10. Overcast all day with light rain. Rather cold during the night with 1/4 inch thick ice on all ponds the following morning.

September Umiat, Alaska - Took up the traps on T 5, 7, & 9 and put them out on T 4, 6 & 8 — in the morning. Ran T 2 & 10 in the afternoon. Sky mostly clear today - especially in the afternoon.

September Umiat - Ran traplines in the early afternoon and late morning. Warm & clear today.

September Umiat, Alaska. Ran traps on T 4, 6, & 8 in late morning and early afternoon. Took up traps on T 2 & 10 in the late afternoon. Overcast all day with intermittent light rain in the morning and continuing all afternoon.

September Umiat to Barrow - took up traps on T 4, 6, & 8 in the morning. Packed gear, and departed via Wien Super 46 for Barrow at 1115. Arrived Barrow 1230.

sept - at
ul all day.

22 September Barrow, Alaska. In the morning Merl and I set out traps on T 7 & 8. In the early afternoon we set them out on T B and 3A. Spent the rest of the

T. Cade
1958

General Account

2 September - cont-
day skinning Umiat specimens

3 September - ~~Umiat~~ - ran trap lines and spent rest of day in lab. Blowing snow storm in the afternoon and evening but traps not observed. Set traps on ~~[illegible]~~ T 4A & 4B.

4 September Umiat - departed in LVT at 1055 with Kenny Toovak, Pete Sovalik, Harry Brower, Joe Ageak and John O'Sullivan. Headed out for 3 days along the Meade. At 1115 as soon as we turned off the road in the roth area, the LVT mired down on a bank - permafrost very deep here. At 1215 we finally got the LVT out with a "cat." Passed by the gas well at 1250. At 1306, we got stuck again trying to cross the big ditch south of the well. At 1415 we got going again but made very slow progress through the old lake beds and finally at 1445 about 2 mi S of the well we gave it up and returned to Barrow.

Saw 12 gulls, 1 old squaw and 2 snow buntings from the gas well out. Returned to Barrow 1630.

T. Cade
1958

General Account

5 September, Barrow - Inaru River - Peard Bay

Made flight reconnaissance with Bobby Fischer and John O'Sullivan. Itinerary follows:

1028 - departed Barrow towards mouth of Inaru

1045 - over Inaru a few miles below Fish Camp.

1046 - 2 adult swans seen on the river

1051 - 2 " " " " " "

1054 just above 1957 "duck camp" - 1 red fox, 50 glaucous gulls, 1 arctic loon

1057 1 ♀? snowy owl flying along river.

1059 - down on the river at the sand dunes below the duck camp - same dunes visited in spring 1957.

1107 - adult yellow-billed loon flew off the river and circled over us several times.

1311 - after eating lunch - off up river again.

1326 - arctic loon on the river

1327 - landed on the upper reach of the river by 30 ft - mud bank.

1456 - off again heading toward west side of Peard Bay.

1500 1 flock of 25-30 willow ptarmigan

T. Cade
1968

General Account

5 September - cont-
1503 - arctic loon on a lake
1509 - 15 caribou lying down on tundra.
1516 - 4 caribou
1522 - landed on large lake ca 10 mi S. of the S. western ~~end~~ corner of Peard Bay. 18 oldsquaws on the lake - several gulls seen.
1618 - off again toward Barrow
1621 - 3 caribou
1623 - 4 caribou
1625 - 5 caribou
1640 - landed at Barrow.

6 September Barrow to Fairbanks.
Picked up traps on remaining lines in the morning. Closed up the lab and departed via Wien for Fairbanks around 1400. Arrived Fairbanks ca 1700. Departed Fairbanks for Seattle at 2200.

7 September Seattle to Oakland
We could not land at Seattle because of fog - or anywhere else on the coast side of the Cascades. Finally landed at Yakima around 0800. Departed from there ~~for~~ for Portland via Northwest around 1000. Arrived

T. Code
1968

General Account

7 Sept - Cont-
Portland around 1000. Departed
Portland for Oakland at 1400.
Arrived Oakland at 1630.

T. Cade
1958

Okpilak Lake - Mist-Net Catches

august -1700 - Net set out in a steep-sided drain running into Okpilak Lake on the south side. Drain comes out of a meadow about 1/4 mi from the lake. Drain is about 20 yds wide with sides 5-10 ft tall and covered with dense growth of dwarf birch. Bottom of drain is wet sedge-grass. Net stretched across drain.

august 2330 - catch for first day =
Spizella arborea - 2 adults, 1 juvenile.
Passerculus sandwichensis - 1 adult
Acanthis spp - 1 adult ♂, 1 juvenile
Calcarius lapponicus - 1 adult ♂
Anthus spinoletta - 1
Total = 8

august 2200 - catch =
Spizella arborea - 1 adult, 1 juvenile
Passerculus sandwichensis - 2 adults, 3 juv.
Acanthis spp - 2 adult ♂, 1 ad ♀, 2 juv.
Calcarius lapponicus - 2
Total = 14

august 1100 - catch =
Passerculus sandwichensis - 4
Acanthis spp - 1 juv.
Calcarius lapponicus - 4
Total = 9

7 august 2000 - catch =
Spizella arborea - 4

Cade
1958

Okpilak Lake - Mist-Net Catches

8 August - cont -

<u>Passerculus</u> <u>sandwichensis</u> - 1
<u>Acanthis</u> spp - 2
Total = 7

August 1300 - catch =
<u>Spizella</u> <u>arborea</u> - 2 adults
<u>Passerculus</u> <u>sandwichensis</u> - 11
<u>Acanthis</u> spp - 1 Ad ♀, 2 juv
<u>Calcarius</u> <u>lapponicus</u> - 2
Total = 18

Net removed to a point a hundred yards above the mouth of Contact Creek in an area of tall willow brush. Net stretched across stream bed between two groves of willows. - 1600

August 1430 - catch =
<u>Spizella</u> <u>arborea</u> - 3 adults, 1 juv
<u>Zonotrichia</u> <u>leucophrys</u> - 3 imm, 1 juv
Turdus migratorius - 7 juveniles
Total = 15

August 1500 - catch
~~Two~~ <u>Spizella</u> <u>arborea</u>, 1 ad, 1 juv
(Note: net had been blown down by wind.)

Net moved back to original position at 2000.

T. Cade
1958

Okpilak Lake - Mist-Net Catches

11 August 1000 - catch =
Spizella arborea - 9 adult, 1 juv
Passerculus sandwichensis - 2
Acanthis spp - 2 juv
Calcarius lapponicus - 5
Zonotrichia leucophrys - 1 imm
Total = 20
2100 - catch
Spizella arborea - 3
Acanthis spp - 5
Calcarius lapponicus - 3
Total = 11

12 August - 2000 - catch =
Spizella arborea - 11
Passerculus sandwichensis - 5
Acanthis spp - 5 juv
Calcarius lapponicus - 3
Total = 24

13 August 1300 - net removed catch =
Spizella arborea = 3
Acanthis spp = 11 juv
Calcarius lapponicus = 3
Total = 17

~~For the lake site - Total Spizella = 38~~ also 1 Anthus
~~Total Passerculus = 29~~ and 1 Zonotrichia
~~Total Acanthis = 36~~
~~Total Calcarius = 23~~

T. Cade
1958

Okpilak Lake - Mist-net Catches

16 August - Net reset on the drainage along the south side of the lake

17 August 1000 catch =
Passerculus sandwichensis - 1
Acanthis sp - 23
Total = 24

18 August 1000 catch
Spizella arborea - 5
Acanthis sp - 38
Total = 43

Net removed

Total _Spizella_ = 43
Total _Passerculus_ = 30
Total _Acanthis_ = 97
Total _Calcarius_ = 23
plus 1 _Anthus_ & 1 _Zonotrichia_

Code
1958

Jogo - Mist Net Catches

9 August 1100 - Net set out in same site as 1957 - along a willow bordered creek draining out of the little lake SW of Jogo Lake & up hill.

0 August 1100 catch =
Calcarius lapponicus - 1
Acanthis sp - 3
Spizella arborea - 5 Ad, 1 juv
Zonotrichia leucophrys, 1 Ad
Lanius borealis - 1 juv
Luscinia svecica - 1 juv.
Total = 13

21 August 1000 catch =
Acanthis sp - 1 Ad ♂, 6 others
Spizella arborea - 6
Zonotrichia leucophrys, 1 Ad, 4 imm.
Total = 18

22 August Calcarius lapponicus + 3
Acanthis sp - 2 Ad ♂, 6 others
Spizella arborea - 6 Ad
~~Total = 15~~ Lanius borealis - 1
Total = 18

3 August Spizella arborea - 6
Turdus migratorius - 1 juv
Total = 7

24 August Spizella arborea - 3
Acanthis sp - 1 Ad ♂ & 3 others
Total = 7 net removed

Cade
1959

General Account

11 May 1025 - Left Oakland airport for Barrow, Alaska, accompanied by W. J. Maher.
1255 - arrived Seattle.
1400 - departed Seattle for Fairbanks via Pan Am.
1800 - arrived Fairbanks, where we were met at the airport by Brina Kessel and her husband, Ray Roof. We were taken to Hess Hall on the University of Alaska campus, where a room had been reserved for us.
Later we went out to Brina's house with L. G. Swartz and his wife, and spent the evening in the company of Al Johnson and his wife, Bill Pruitt, and Fred Dean.

12 May - Fairbanks vicinity - at 0900 we left College in a university car for a trip up the Steese highway to find the shrike nest which I located back in 1956. We went out to mile 55 and then returned, stopping at several points along the highway to look over the ground.
After dinner at College, we went

T. Cade
1959

General Account

12 May - cont
out to Smith Lake to observe waterfowl and then over to Chena Bluff, where we saw a pair of peregrines. We continued on around the Chena ridge road and back to College.

13 May - Fairbanks vicinity - returned to Chena Bluff in the morning with some climbing rope borrowed from Niel Davis at the Geophysical Institute. Investigated the bluff for nesting by peregrines.

In the afternoon we went into Fairbanks and made arrangements about our departure for Barrow in the morning.

14 May 0700 - departed Fairbanks via Wien for Barrow. Stopped briefly at Umiat and learned that the oil people will have about 100 men in the camp this summer. There is a commercially operated restaurant feeding off the oil men!

Arrived at Barrow around 1100 and met by Max Brewer. In the afternoon Bill and I took out a weasel and traveled around our

T. Cade
1959

General Account

14 May -cont-
study areas in Central marsh, out as far as the gas well and back through the Path area.

15 May Barrow - In the afternoon Bill and I went out with Joe Ageak with a D-8 cat to scrape some snow off Central Marsh.

<u>Weather</u> during these first two days has been absolutely clear with little wind - some of the most beautiful days I have ever seen at Barrow.

There is a rather heavy accumulation of snow, almost 2 feet deep in places undisturbed by wind. As yet there has been no thaw. According to Max the winter was mild - only one hard cold spell in February. The heavy snow should have provided good cover for lemmings.

16 May Barrow to Meade River & return
0930 - Bill and I departed by weasel along the Colville trail to the Meade. Weather: overcast and visibility poor.
1230 - at mile 30.5 out of Barrow Village we hit the Meade. Ate lunch.
1300 - continued reconnaissance for about

J. Cole
1959

General Account

16 May - cont.
2 miles to the sand dune area and the fox dens.
1410 - back to the trail and continued on up river for about a mile.
1420 - back to trail and return to Barrow.
1700 - back in Barrow. Total travel ca. 75 miles. Weather continued overcast the whole time.

17 May Barrow - in and around camp all day - counted the museum specimens, separated non-functional from functional ones.

18-19 May - Barrow - waiting for plane for trip to Pitmegea River. In the lab both days.

20 May Barrow to Pitmegea River
1435 - left Barrow with Bill Maher in Cessna 180 - ski-wheel combination Bobby Fisher flying. We were accompanied by another ARL plane carrying Tim Myers and some of our supplies.
1440 - off runway at Barrow
1445 - over Barrow Village, following the coast. After passing Wainwright we flew inland from the coast ca

T. Cade
1959

General Account

20 May -cont.

15-20 miles, hitting the coast again at Point Lay.
1608- over the site at Point Lay. First large area of melt-off water on lagoon ice just south of Point Lay. From there on the whole landscape began to clear rapidly. There was no sign of melt-off anywhere along the coast or inland before Point Lay. Perhaps on top of some of the ridges there had been a start, but less than 1% of the surface was exposed. From Beaufort on, the upper hilly regions presented an aspect which generally gave the impression that about 50% of the ground was free of snow. The low, tundra areas immediately along the coast appeared to be about 20-30% free of snow. Some creeks and rivers have open, ~~but~~ others not, but there does not seem to be any correlation with time of break-up and size,— both large & small streams may be open or closed.
1635- passed Cape Beaufort.
1700- down on bar at Pitmegea.

T. Cade
1959

General Account

20 May cont —

While waiting for Bobby to return with the rest of our supplies from Lez 2, we went up on the ground above camp and walked around in the vicinity of Childs's study area.

Sky perfectly clear with no wind when we arrived and continued so all evening.

Bobby had to make 2 shuttles the last one around 2100. Finally got camp set up and dinner finished around 2200.

[Margin note: [illegible] ptarmigan [illegible]: interesting often. Wish I [illegible] high on the ridges are a full flare of weather triggered conditions on optimal nights [illegible].]

21 May Pitmegea River — 1000 — Bill and I walked out to Child's study area to examine ground conditions and look at transects. We walked south to the first main ridge in the area, along the length of it and back, then coastward until we came out over the sea, back along the coast to the prominent ridge southwest of camp and followed along it back to camp. Returned at 1330. Weather overcast with some wind from south east, from which quarter it had been

T. Cade
1958

General Account

21 May cont
blowing since early morning. We walked about 5-6 miles.
In the afternoon we put the Kalamazoo boat together and crossed the river at 16.00. We walked to the first ridge north of the river, then cut back toward the river to the long ridge that flanks the right limit of the river ca 1/4 mi above camp. Walked the full length of it and then back to our landing a couple 100 yds below camp. Crossed river and returned to camp at 1930. Mostly overcast the entire time, wind shifting to west to north.

22 May Pitmegea River. – 1100 – went out to study area and set traps on the transect on the ridge which overlaps the census plot. Also set some traps along the edge of the snow lying in the creek which flows through the study area. Creek is still frozen over. Returned to camp at 1330. Spent rest of afternoon writing up field notes. Weather overcast with light

T. Cade
1959

General Account

22 May Cont. -
rain between 1200 and 1400.
Wind mostly from the south.
~~23 May~~ Ran trap line in the evening
and skinned in the late evening.
23 May Pitmegea River - 1100 - went out
to trap line. Sky over-cast with
intermittent rain. Last of the
snow is melting off rapidly. Returned
to camp at 1210.
1240 - crossed the river and
walked about 2 miles upstream
to the gyrfalcon cliff. Back along
the foot of the flat ridge with
the late snow bank. Returned
to camp at 1710.
1945 - out to traplines. Sky
still overcast and intermittent
light rain falling. Afterward walked
along the ridge above camp and
returned at 2130. Raining
heavier.
Wrote notes the rest of the evening.
Heavy downpour of rain began
at 2230

24 May Pitmegea River - Heavy rain off
and on all night with very strong
south west wind. Wind continued

T. Cade
1959

General Account

24 May – strong all day with complete overcast. Tent blew down once in the morning.

Except for running trap line morning and evening, stayed in camp all day.

Only about 10 % of ground still covered by snow. Rain last night hastened the melt-off. Many traps inundated on the line.

25 May Pitmegea River – Wind continued strong most of the day but sky was clearing through the morning and by noon there were only scattered light clouds. Wind abated somewhat in the after-noon but not much. We again had trouble with the tent this morning.

We took up the traps in the late morning, and in the afternoon from 1330 to 1800 we walked up river to the first creek beyond camp. This was now flowing with so much water we could not cross, so we continued along the creek walking as far as the high ridge that

T. Cade
1959

General Account

25 May cont
marks the outer limits of Childs's study area. Came back the same way.
Spent the evening writing notes and skinning.
Snow now mostly gone off the tundra and the run off is very rapid, there being little chance for the accumulation of melt water as at Barrow because of the sloping topography

26 May Pitmegea River - Skies clearing during the morning - mostly clear during the afternoon - still, however, with considerable wind from the southern sector.
1500 - crossed the river again, and I walked upriver to the gyrfalcon cliff again while Maher walked to the lagoon and along the coast. Returned to camp at 1930. Sky overcast again in the evening.

27 May Pitmegea - waited around for the plane in the morning. When it did not show, went walking over the tundra back of the tent and

T. Cade
1959

General Account

27 May cont

along the coast below the mouth of the river. Out from 1130 to 1530.

Wind shifted northward in the early afternoon bringing in heavy overcast with light rain and some snow flurries in the late afternoon.

Saxifrage is about to bloom on the river bar. A few heads of Pedicularis are sticking up and Eriophorum vaginatum heads are beginning to shed pollen.

28 May Pitmegea River - Waited around the whole day for the plane, which did not arrive. Clear day but strong wind from northerly direction. Went out in the late morning and early afternoon into Childs's study area to shoot some ducks for dinner, since we ran out of meat yesterday. Got two pintails and a rock ptarmigan.

In the evening from 2000 to 2200 I walked down river to the deserted cabin, out along the sand spit to the mouth of the

General Account

28 May cont. -
river and back along same route to the tent. Maher came in saying he had spotted some exotic duck up stream, and we went off after it with the shotgun. We did not find the pair again but from his drawing of the drake we were able to identify it later as Anas formosum. We continued up the left limit of the river about a mile, and then turned and followed a large creek inland for about another mile; then back to camp via the same route arriving at 0130 on 29th.

29 May Pitmegea - Cape Thompson - Kotzebue - Noatak River - to Barrow.

Bobby Fischer came in at 1030 landing in a strong cross wind of about 30 mph - causing him some difficulty. He did not want to take off with a heavy load, so we cached a lot of the equipment: Kalamazoo, tent, gas drum, coleman stove and lamp, sack of traps, and other odds and ins.

1146 we took off and flew up the coast to Liz A (Cape Beaufort) to gas up for a long recon flight.

1200 - landed at Liz A. Watched

T. Cade
1959

General Account

29 May cont

shorebirds and waterfowl at the site for a while. Had some coffee.

1242 - we took off from Liz A, headed down the coast. Visibility perfect except over Cape Lisburne, which was covered by low clouds. However, only the tip of the cape was covered up. There is a great stretch of sea cliffs running down the coast from the cape for perhaps 15-20 miles - no continuous ramparts but outcrops at frequent intervals where ridges run down to the coast from the higher ground inland. A wide sandy beach runs all along the way below these bluffs. The area looks highly suitable for nesting falcons and rough-legged hawks. Accessible from the dew-line site. We did not get a good look at the front of the cliffs because we were flying directly over-head.

1330 - passing by Cape Thompson. Here the cliffs are not nearly so extensive as at Lisburne. They extend, in inter-rupted pattern, for about 5 miles. Two of the areas look like they are used by

T. Cade
1959

General Account

29 May - cont -

sea birds, but we saw only a few gulls or Kittiwakes - probably too early for the alcids and cormorants. We made two passes by the cliffs for photographs. Passed over the site where the great A-blast is supposed to create a "harbour" to demonstrate a peaceful use of atomic energy." Saw no one on the ground there at the moment.

1405 - passed over Kivalina - continued on down the coast a ways and then cut inland to pass over a low range of hills between the coast and the Noatak valley - direct to Kotzebue. Stopped for gas and lunch. Ate hamburgers at $1.00 a piece at Rotman's Store - a bit of midwestern Americana transplanted to the arctic.

1625 - Left Kotzebue to follow the Noatak River upstream. I was impressed by the large amount of deciduous woods mixed in with the spruce - most of the large trees appeared to be poplars but there may have been some birch. In the vicinity of Noatak Village the spruce

T. Cade
1959

General Account

29 May cont

forest is quite extensive and extends several miles laterally from the river. Elsewhere it is mostly a fringe forest along the river. The last of the spruce was seen in the deep canyon a few miles above the mouth of the Kelly River.

Rocky cliffs are not abundant along the river and especially along the lower reach below the Kelly there are long stretches with no true bluff-like formation of any sort. There is one series of good rocky outcrops about 10-15 miles above the mouth, then a stretch of 10 miles or so in the canyon above the Kelly that looks good for raptors. Farther up there are lots of steep earth banks but few true outcrops. Still the former may be suitable for hawks.

We cut out of the Noatak valley at Feniak Lake and crossed over the Brooks Range, following the west branch of the Kuna north to the Colville. After crossing the range our visibility to the ground became badly obscured by low clouds nearly to the coast. But I was able to see

T. Cade
1959

General Account

29 May - cont—
that the upper Colville and tributaries were still iced over with no water running yet. Ground still largely covered with snow except on high raised ground. We followed the Kuk out to the coast and from Wainwright along the coast, a few miles inland, to Barrow. Coastal tundra still not more than 1-5% clear of snow. High spots free.

2012 - arrived back in Barrow

30 May Barrow - Veteran's Day holiday in Barrow - spent the entire day doing nothing, except some letter writing.

31 May Barrow to Peters Lake -

1005 - left Barrow with Harry Brower for the air force camp on Lake Peters, Bobby Fischer flying. Intermittently good visibility. Tundra still largely snow-covered east of Barrow until one arrives at the Colville delta (1120 time). The lower river, at least, is open and flowing. On the delta islands and on the adjacent mainland east of the river toward Oliktok Point the snow is largely gone - only 10% of

Code
1959

General Account

31 May cont

ground covered - in protected places - banks, etc. The exposed tundra in this area has open lakes and has a definite greenish look from the air. This condition extended only a few miles beyond the river valley and then the tundra resumed the same appearance it has around Barrow. This is the most conspicuous example of local variation? in phenology that I have ever seen. It is my bet that this area is now loaded up with water fowl and other birds.

Sagavanirktok R. is flowing but the river valley is still about 50% covered with snow - more exposed than the adjacent uplands, which are about 95% covered as yet.

The next drainage east of the Saga is still iced over with no melt water flowing.

West branch of Shaviovik is flowing but the east branch is still closed but with melt water flowing over it in places.

Canning River is broken up but

T. Cade
1959

General Account

31 May - cont.

but large ice jams in several places.

1210 - just approaching the Shublik Mts. This area is loaded with outcrops, castle rocks, and precipices - both low down on the valley walls and high up along the ridges.

There is a great stretch of open tundra in the foot-hills along the Katakturak River - does not show green but only about 10% covered with snow. Condition does not extend to the coast.

1230 - down on Peters by the camp. The camp is located about mid way on the east side of Peters. Absolutely clear and still atmosphere. First really bright day of spring - very rapid melting all day. Stream between the lakes is open in places but the water is flowing back to Peters because of snow blocking at the Schrader end. Lower slopes and fans on the east side of the lake are nearly free of snow - those on west side still about 50% covered. No flowers yet in bloom but Salix alaxensis catkins

General Account

31 May - cont-

are everywhere swollen and in the many exposed stands the catkins have broken open and are flowering.

Several bumble bees were seen and one was feeding on a willow catkin.

John Hobby says the ice and snow conditions are about 2 weeks behind last year.

1330 - took a walk back of camp on some of the fans and along the valley. Located the shrike nest that Hobby mentioned in his letter. Took a number of pictures - returned to camp, picked up gun and crossed the lake to the fan opposite camp - the one with extensive stand of tall willows. Spent about 2 hrs on the west side of the lake and returned to camp at 1645.

Met John Hobby and other members of the camp. Loyd Spetzman is here. He plans to travel down several of the eastern rivers this summer.

Wrote notes in the evening.

In flying over the timber today I was much impressed with the possibility

T. Cade
1959

General Account

31 May cont

for studying the effects of the pattern and variation in the break-up and spring thaw of snow on the local distribution and concentrations of birds - esp. waterfowl - from year to year. The birds arrive on a rather fixed schedule but meteorological events vary in wide extremes from one year to the next. In a late year such as this, the birds must concentrate in those areas that tend to thaw earliest - as for instance the Colville delta this year. In early thawing years there is probably less of a concentrating effect. This is an hypothesis which could easily be studied with the facilities at ARL.

June Peters - Schrader Lakes

Another bright clear day. Temp at 0800 was 45°F. *Eriophorum vaginatum* shedding pollen in some areas. Bases of sedges and grasses turning green. No other "flowers" seen blooming yet. Lots of bumble bees flying all over - even on the glacier yesterday according

T. Cade
1959

General Account

1 June - cont -
to Hobby

1000 - went with Hobby and others in a tracked vehicle called a bombadier down to Schrader Lake as far as MacLaughlin's cabin and return to camp at 1330. We stopped at the Wien camp of last year where they worked to get the C-46 out of the hole in the ice and at several of the recording stations on the ice of the lakes.

1400 - off to shrikes nest for photos and then across lake to the same area as yesterday to check again for shrikes there. Also walked to the next fan north to look at the stand of willows there. Returned to camp at 1745.

Spent the evening preparing skeletons and writing notes.

Melt water streams are now running down the sides of the valley walls.

2 June Peters - Schrader Lakes - Whistler Creek

1000 left camp for an all day hike over to Whistler Creek, stopping first at the shrike nest on the west side of Peters.

T. Cade
1959

General Account

2 June -cont-

From the shrike nest, which I left at 1050, I proceeded north along the west side of the lake looking over the willow stands on the fans, until I came to the upper of three saddles in the ridge which allow passage into the Whistler Cr. valley.

1315 - reached the summit of the pass and started down on the Whistler Creek side. Stopped for a brief snack just beyond the pass, then continued down into valley.

1410 - arrived in the creek bottom. Creek flowing but ice still clinging to the banks all along the way. I proceeded upstream to check on willow stands. Walked to the last outriders of the knee-high willows ca 1 mile above my point of descent into the valley.

1545 - reached the end of the willows and started back downstream.

1730 - arrived back at the point of my descent into Whistler valley. Continued on downstream at 1800, after eating.

2030 - arrived out in the flats between Peters and Schrader, and cut across a low moraine to walk back up the

T. Cade
1959

General Account

2 June cont
west side of Peters to the shrike nest, where I had cached my baloo. John Hobbie & Harry Brower came out to meet me in the Bombadier. Arrived back in camp at 2230. Ate then checked shrike's nest behind camp. Retired at 2330.

In the morning there was a light scattering of cumulus clouds, but cleared up in the afternoon - mostly clear and warm all day. Bumblebees were out in numbers everywhere.

June Peters-Schrader Lakes - took my turn today as camp cook. Another entirely clear, warm day. Wrote notes in the afternoon.

June Peters-Schrader Lakes - 0830 - off to NW side of Schrader in Bombardier - Frank Pewitt driving John Hobbie, Carol Rock, and me out to our starting point for hike into a creek (NW of Schrader Knob) that flows into the Sadlerochit R. above the main forks. Bill Holmes (USGS) reported "eagles" attacking him from some cliffs on this creek, 4 miles distant from

T. Cade
1959

General Account

4 June cont

Schrader - about four miles above the Sadlerochit.

0915 - left the Bombardier and started hiking up the rise on the NW side of Schrader, starting at the old USGS cache. Crossed the divide into the head of "Buteo" Creek (the one where eagles were reported) passing on south side of Schrader Knob. There was still quite a bit of snow (50% cover) on the divide, but once into the creek valley most of the snow was gone. We traveled the left limit of the creek for about a mile, then crossed over to the right limit and continued on that side to the bluffs. We reached the creek bottom first at 1105.

1410 we arrived at the bluffs where the eagles had been reported. Ate lunch. Found roughlegs and peregrines but no eagles.

1530 - we started back climbing up on top of the divide that separates Buteo Creek from the next drainage to the eastward. We followed this long sloping ridge all the way back to the base of Schrader Knob,

T. Cade
1956

General Account

4 June cont.

then passed eastward of the Kpeak in order to get down into Schrader Lake as soon as possible, as we were scheduled to rendezvous with the Bombardier at 1800-1830. We had to traverse several large snow fields at the head of the drainage, but we got down onto the northwest end of Schrader at 1830. No bombardier waiting. Fortunately it was late in coming and met us out on the lake about 30 minutes later. We were back in camp at 1945. This trip took us into the foothills province - out of the influence of the high mountains.

Clear weather all day

Walked ca. 16 miles all together

June Peters-Schrader Lakes - stayed around camp all day, mending a snow heel, writing notes, and tending to specimens. Checked the shrikes across the lake in the morning, and those back of camp in the evening. Another all clear day.

Walked south along the east side of Peters in the late afternoon - went to the mouth of Carnivore Creek and return to camp. Out 2 hours. Another day of all clear weather.

T. Cade
1959

General Account

6 June Peters-Schrader Lakes - Clear all day until about 1930, North wind blowing all day around 15 mph brought in low clouds in the evening with ceiling of less than 200 ft and visibility of about 1 mile.

1000- left camp for a walk up Carnivore Creek. Walked up the east side (right limit), going about 3 miles above the mouth - to a point half a mile above where the stream from the next glacier south of Chamberlain Glacier flows into Carnivore. There is a large dike (moraine from the glacier) almost closing off Carnivore Creek at the point of entrance of this Creek. Passed through a series of wet meadows much trampled by last year's herd of some 30,000 caribou. An interesting point about the trampling - where the ground had been disturbed to the point that the vegetation was gone - creating muddy patches within the meadows, there the shorebirds were concentrated to forage in the mud. Apparently these trampled areas create favorable habitat for invertebrates.

T. Cade
1959

General Account

6 June - cont.

These spots of black mud thaw earlier and deeper than vegetated ground. The following species were seen feeding at such areas: semipalmated plovers, northern phalaropes, Baird's sandpipers, least sandpiper, pectoral sandpipers, semipalmated sandpipers, wandering tattlers, water pipits, and longspurs.

For convenience in the notes three prominent meadows on the east side are named as follows, starting with the lower and working successively upstream: (1) sandpiper meadow between two fans about 1 mi above mouth of Carnivore, (2) Phoebe Meadow, a small area on the other side of the fan upstream from Sandpiper Meadow, (3) Round Meadow - round wet meadow surrounded by steep sided boulders of shale, with a sedge marsh and a half grass filled lake in the center. The lake is about 30-40 yds in diameter and was about waist deep in the center (I waded in part of it in an attempt to retrieve a duck.), (4) Moraine Meadow, an irregular shaped area among moraines

T. Code
1959

General Account

6 June cont

just below the large boulder strewn fan that results from outwash of the creek that drains the glacier above Chamberlain Glacier, (5) Big Meadow - on both sides of the Carnivore immediately above the dike that almost closes off the valley (Carnivore cuts thru a narrow steep shoot at the west end).

1530 - returning down Carnivore on the west side.

1810 - back in camp, having crossed the lake ice from mouth of Carnivore directly to the fan back of camp.

Total distance traveled about 8 miles. - No willows yet with green leaves. Hobbie says the snow and ice conditions are about 2 weeks later than last year. This seems to be in general agreement with Barrow conditions.

7 June Peters - Schrader Lakes - Clear skies all day - some north wind blowing. Remained in camp all morning.

1345 - went out south along east side of Peters around the end and out into the "flood plain" of Carnivore Creek, then on

T. Cade
1959

General Account

7 June - cont-
around to the west side travelling over the fans to the area of willows where the shrike nest was located. Then back across the lake to camp, returning at 1800.

June Peters-Schrader Lakes - Another all clear, practically windless day. Willow catkins are maximally developed now - and also the blossoms of E. vaginatum - shedding pollen abundantly everywhere. Bases of grasses and sedges blooming. Flowers other than Saxifrages in bloom.

0910 - off to Schrader L. in the Bombardier with Bobbie and Rock. I left them at their temperature station in the middle of the lake and spent the rest of the morning and part of afternoon hiking around over the large polygonized fan on the SE side of Schrader - walking about a mile up "Coke" Creek toward Chamberlin.

Around 1600 Rock met me out on the ice of Schrader in the Bombardier and took me over to the flats between the two lakes. I walked all over this area and up along Whistler Creek as far as the first shrike nest, then back over the flats to the east side

General Account

8 June - cont-
of Peters and so back to camp along the east side Returned to camp at 2100.

After eating I checked the shrike nest on the fan back of camp.

June Peters-Schrader L. - another clear, still day. Spent the morning writing notes and letters. Became overcast in the afternoon from billowy light clouds drifting in high from the south.

1300 - went out to examine shrike nests #1 and #5 south of camp. Spent some time on the steep rocky slopes on the east wall of Carnivore Valley. Returned to camp at 1700. Bobby Fischer came in from ARL shortly afterward. Overcast continues into ~~late~~ early evening.

0 June Peters-Schrader L. - clear in the morning but clouds drifted in high from the south in the afternoon; warm nevertheless. My day to cook again - thus in camp most of the day. Went out at 1530 to check the shrike nest back of camp.

~~E.Q.~~T. Code
1459

General Account

11 June - Peters-Schrader - Overcast most of the day with light showers in the afternoon and evening. Last night was 33° F. low temp - first night that has stayed above freezing. Several flowers now blooming - dwarf green leaf willows have large leaf buds but flat-leaf still have only catkins no leaves. Little lake NW Peters has a large moat all around ice. Most of snow now melted off the ice of Peters.

0900 - checked shrike nest #1 -

0915 - off to north end of Peters in Bombardier. Set out a line of traps in the wet tundra back of the Klein camp on the flats between the two lakes. Then walked over to and around the little lake NW of Peters. Then crossed the ice to far where shrike nest #6 is located - on to #7. Then crossed lake to west side and rechecked all the willow zones on the drainages running down to the lake. Checked shrike area #2 again. Back across to camp at 1615.

Out to shrike #1 at 2100. Return at 2130.

~~12~~ T. Cade 1959

General Account

12 June Peters-Schrader L. -

0900 - checked shrike nest #1 and returned to camp.

0930 - left camp for Whistler Creek, again crossing over the "Main Range" thru the high pass into the Whistler drainage. Arrived in the head of Whistler at 1200. Walked up to the end of the tall willow zone, then across stream and out onto the flats between the two lakes, passing over one of the lateral moraines on the way. Ran the trap line and returned direct across the lake to camp arriving at 1730.

Weather mostly overcast all day - just a little sunshine between 1100 & 1300. Moderate heavy rain last night and continued drizzles off and on all day. New snow on the higher slopes and peaks around the lakes.

Rhododendron blooming on the slopes - also the purple Pedicularis. Leaf buds on feather-leaf willows are just pushing out below the catkins.

Harry Brown came down with a prolapsed rectum and had to tend him all evening and into the following morning, until the plane could arrive.

T. Cade
1959

General Account

13 June Peters - Schrader L. - Bobby Fischer finally got in thru the clouds around 0900 and took Harry Brower out. I spent the rest of the morning around camp. In the afternoon got a ride down to the north end of Peters where I walked around in the flats - set out a line of traps back of Wien dump, checked the jaeger area, then walked back to camp along the fans on the east side of the lake. Also checked the #2 shrike area.

Overcast most of the day with intermittent light rain. Some heavy rain during the night - flipped most of the mouse traps.

14 June Peters - Schrader L - intermittently clear or overcast with high clouds. Warm south wind blowing down the valley.

0945 - Walking trip up Carnivore R. - starting on the west side of Peters, then crossing the mouth of Carnivore and walking up stream on east side of the valley. Passed thru all the meadows seen on the previous trip and then on up-stream along Carnivore Lakes - finally to north end of James Robert Lake. Arrived there at 1605. Started back to

T. Cade
1959

General Account

14 June cont

camp at 1625. Arrived camp at 2000.

15 June Peters - Schrader Lakes - ride in Bombardier to north end Peters. Picked up traps. Then found the jaeger nest between the lakes, fenced it in, walked over to mouth of Spawning Creek to see McGoffin's cabin again, then across Schrader to the big fan where I found the other jaeger nest and fenced it in. Back along S side of Schrader and east side of Peters to camp.

Again intermittently cloudy all day long.

Bobby Fischer came in around 2300 with Jerry Brown and John Schader.

16 June Peters - Barrow

In the morning I packed up and got ready to leave while Bobby flew Jerry and Schader up to McCall Glacier. Then just before lunch we made an air drop to Spetzman's party on the Sadlerochit. After lunch we started back to Barrow. Left Peters at 1410 - arrived Barrow 1640.

T. Cade
1959

General Account

17 June Barrow - spent the day in camp writing letters, field notes and catching up on the local developments. Henry Childs had arrived the day before. Shanks and Kovaruda came in on the plane today.

8 June Barrow to Umiat - left Barrow via Wien commercial around 1300 - arrived Umiat around 1400. Spent the rest of the afternoon with George Riedel replacing a track on the one functional weasel.

Phenology - green leaf willows are just leafing out - leaf buds broken open & leaves almost unfolded - same is true of birch and alder. Alder catkins are large and nearly ready to shed pollen. Felt-leaf willow leaf buds are just beginning to break. A still, partially cloudy day.

In ARL group at present are Jim Hawling, Lowell Douglas, Mike Daniels, Chuck Carson, and Joe Agiak.

9 June Umiat, Alaska - 0800 - went out in weasel and set out traps on lines 1, 3, and 7 (red hill). Mike Daniels accompanied and helped me. I drove Chuck Carson around to various lakes

General Account

19 June -cont-
on the upper terrace. We came back along Sea Bee Cr, stopped by last year's shrike area, and returned to camp around 1500. 2100 - returned to the trap lines - back in camp around 2300.

Perfectly clear, calm day. Alders are beginning to shed pollen - looks like another bumper cone crop year. Felt-leaf willows are just leafing out. Ledum has large flower buds. Eriophorum vaginatum beginning to mature heads.

20 June Umiat - 0800 - ran traplines in the morning - carried Carson around to lakes at foot of Red Hill. Examined brushy areas on Red Hill - observed a shrike nest. Returned to camp at 1530. Back to traps in evening.

Another all clear day - breeze from E & NE most of the day.

1 June Umiat - Ran trap lines ~~each~~ in the morning. Drove weasel out to dump area and along the river in brushy areas - looking for shrikes - back to trap lines in the late evening.

T. Cade
1959

General Account

22 June Umiat - took up traps on T1, 3, and 7 in the morning. Helped Carson with his lake work in the early afternoon, wrote notes until dinner time.

Yesterday was another all clear day. Today the sun has been shining steadily but there is a development of cumulus clouds and thunder heads over the Brooks Range, and these clouds seem to be moving closer to this area.

In the evening Mike Daniels helped me set out traps on T10. It was completely overcast by then and started raining just as we finished. This prevented us from putting out traps on the other transects. The rain continued off and on all night - sometimes rather hard.

Arctic azalea is in full bloom on the slope of T10 - so also lupine.

23 June Umiat - partially clear in the morning. Mike and I set out traps on T2 and T8 & ran traps on T10.

Ran traps again in the evening. Rain again in late evening and early morning.

T. Cade
1959

General Account

24 June Umiat intermittently cloudy all day. Ran T 2, 10, & 8 in the morning. Skinned in the early afternoon.
Bobby Fischer, Paul Tietjen and Otto Geist came in from Barrow around 1530. At 1645 the four of us went up on a recon flight to check the rivers for water conditions and possible landing areas for the planes. We followed the Colville up to the Killik, then up the Killik to the lake area about midway up the Killik valley. There we ran into heavy rains that prevented us from going on up to Easter Creek, so we cut westward to the Kurupa Lakes, circled there and turned back via same route. Heavy weather prevented us from going on into the Etivluk drainage to check possible landings for a float plane in that area. Between Kurupa Lakes and the Killik, we passed over the spot where I began the Oolamnagavik trip in '56. Fischer circled around the gyrfalcon cliff twice but no birds could be seen there. No ptarmigan were seen on the entire trip.
Ran traps in the evening.

T. Cole
1959

General Account

25 June Umiat
Ran traps in morning and evening. Tedrow came in on the Wien plane from Barrow <u>around</u> noon. Took up traps on T 10 in the evening.
Intermittently clear & cloudy - no rain.

26 June Umiat - took up traps on T 2 & T 8 in the morning and set out traps on T 4, 6, and 9.
<u>Andromeda</u> in full bloom today. <u>E. vaginatum</u> <u>now</u> in white heads in many places. Felt-leaf willows have fully developed leaves. Blueberries & Ledum are beginning to bloom. Cassiope is in full bloom in many places. Rubus also blooming profusely. Alder no longer shedding pollen abundantly.
Took weasel over to shrike nest at base of Red Hill in the evening.
Mostly clear all day.

27 June Umiat - Ran trap lines in morning and evening. 3 Kinnel. Shanks came in today and he and Tedrow went up to a camp on the upper Killik. <u>Clear day.</u>

28 June Umiat - Ran trap lines. Nelson did not arrive today as scheduled. <u>Clear day.</u>

T. Cade
1959

General Account

29 June Umiat - took up traps on T 4, 6, & 9.

30 June Umiat - set out traps on T 5 in the morning. It rained heavily for a brief period in the afternoon. Reran and reset traps in the evening.

1 July Umiat - Ran trap line and took down a description of T 4. It rained again in the afternoon.

2 July Umiat - Nelson finally arrived at 1000. In the afternoon we took the weasel over to Umiat Mt and checked on the rough legs and peregrines nesting there. Ran the trap line in the evening only. Light rain briefly in the afternoon.

3 July Umiat - We visited the shrike nest at base of Red Hill to make movies, but unfortunately there was only one young still in the nest. The others had dispersed into the dense alder stand surrounding the nest. Nelson did get some movies of the adults hovering over us and perched near the nest.

4 July Umiat - Rain most of the day - waiting for plane to take us up river.

5 July Umiat to upper Colville R.
1330 - we left with Bob Main on floats.

T. Cade
1959

General Account

5 July - cont-

Followed the main Colville valley up to the Etivluk, then up along Etivluk to Nigu R. and about 30 miles up the Nigu. Then turned around and flew back to the Colville, since we could find no good landing places along Etivluk or Nigu - and both these rivers looked difficult for boating because of low water. We landed at a point on the main river about 3 miles below mouth of Etivluk.

While Bob returned for the rest of our gear and supplies, we set-up the tent and began assembling the Kalamazoo boat. We are having to start out without a motor, and we have only 1 good canoe paddle and 2 poor collapsible aluminum oars.

Main returned around 2130 with the rest of our stuff. Overcast by then.

6 July Colville R. - above Awuna -

1110 - we departed from camp #1 in overcast weather. 1140 stopped at rough leg nest. 1145 - departed. 1215 arrived at the first of the two crescent shaped cliffs in the bend of the river. Stopped to check cliffs both inland and on the river 1645 we departed this area. 1830 stopped for rough leg. Off again at 1910. 1945 made

T. Cade
1959

General Account

6 July — Colville above Awuna
camp #2 by bluffs on the right limit by roughleg nest.

7 July — checked roughlegs near camp. Rain all day long, making travel difficult.
2035 - departed camp #2 after the rain stopped. Checked hawks on second of crescents.

8 July — 0035 - stopped on the left limit ~~across the river from~~ at a peregrine aerie. ~~and about 1 mi above the 1952 gyr falcon cliff.~~ Roughlegs also present. Continued working second crescent bluffs
2230 - stopped to make camp #3 on left limit across from a peregrine aerie about 1 mi above the 1952 gyr falcon cliff.

9 July — Spent the day at the gyr cliff where we found a pair nesting with 2 nearly fledged young.

10 July — Again spent most of the day at gyr aerie. Raining off and on all day.

11 July — checked the peregrine aerie in the morning.
1450 - departed camp #3. - still overcast, with light wind.
1825 - past the mouth of Awuna River.
2130 - Bob Main flew in with an out-board motor and fuel for us. We made arrangements for him to leave 15 gals more

T. Cade
1959

General Account

1 July — Colville, above Kurupa
gas on the Colville Bar for us to pick up on our way down. We made camp #4 at this location on the right limit, near a peregrine aerie.

12 July — Colville, above Kurupa
1300 - departed camp #4 - 1350 discovered gyr aerie on right limit. 1615 - departed there. 1640 - passed Kurupa River
2030 - we made camp #5 on the left limit a few miles ~~above~~ below the Kurupa river.

13 July — Colville - ~~above~~ below Kurupa
1245 - continued down river - sky overcast
2000 - we made camp #6 on an island about a mile below a gyr falcon aerie on the left limit.

14 July — Colville - ~~above~~ below Kurupa - spent the day at the gyr falcon aerie and at a peregrine aerie below camp. Overcast most of the day with some rain. Even so, we got some good movies of the adult gyrs at the aerie.

15 July — Colville - ~~above~~ below Kurupa - 1215 - we departed camp #6 - overcast day - some light rain.
1430 at cliff on left limit just before Oolamnagavik.

T. Code
1959

General Account

15 July Colville - Oolamnagavik to Killik
1545 - passed Oolamnagavik
1800 - camped on left limit at up river end of the long series of bluffs in the big bend looping north before the Killik. Camp #7.

16 July 1050 - departed camp #7
1130 - at the lower bluff in the Killik Bend - rough legs and peregrines.
1500 - stopped on Colville Bar to pick up gas cache.
1535 - passed mouth of Killik
1700 - stopped to make camp #8 at gyr falcon aerie on right limit.

17 July - Spent most of day in camp - raining off and on
1700 - broke camp to travel but it started raining again. 1820 stopped at a bluff on the right limit and set up camp #9 in the rain.

18 July Colville - below Killik - 1300 - departed camp #9
1450 - at the double knife blade cliff on the right limit.
2045 - stopped to make camp #10 on the left limit on an is-land of extensive willow brush. Rain during the night.

T. Cade
1959

General Account

19 July Colville - below Killik - rain in the night and early morning.
1050 - departed down river
2200 - arrived at Umiat.

20 July Umiat - Nelson and John Martin (Canadian entomologist from Ottawa) and I took the weasel up onto Umiat Mt. There we photographed the roughlegs and the peregrines. Peregrines had addled eggs which they were still incubating.

21-22 July Umiat - at camp making preparations for Nelson's return to the States with 3 gyr falcons and a peregrine and for my departure down river with O'Sullivan. O'Sullivan arrived from Barrow on the 22nd. (Nelson left on 23rd.)

23 July Umiat to Anaktuvuk River -
1310 - O'Sullivan and I left down river in kalamazoo with motor and fuel.
1830 - stopped to make camp #1 on the left limit somewhere above Anaktuvuk.

24 July Umiat to Anaktuvuk -
1145 - departed camp #1 - stopped a few miles below on the right limit on bench-land tundra.
1745 - passed mouth of Anaktuvuk R.

T. Cade
1959

General Account

24 July Anaktuvuk to Sentinel Hill
1800 - stopped a few miles below Anaktuvuk to camp (#2) on left limit.

25 July Anaktuvuk to Sentinel Hill - rained rather heavily all last night.
1215 - departed camp #2.
2045 - made camp on the left limit, after a long day with many hawks. During the night high winds blew down the tent. We slept with it down over us for the rest of the night. It began raining shortly after the tent blew down.

26 July Below Anaktuvuk R. - high winds and rain continued. We finally got the tent back up during a lull in the storm - supported by extra willow poles, guy lines anchored with dead-men etc. Winds must be getting up above 30 mph at times. Remained in the tent all day.

27 July Camp #2 - wind and rains, snow, sleet - continued all day.

28 July Camp #3 - storm still blowing.

29 July Below Anaktuvuk - storm abated somewhat in the morning.
1530 - we finally departed camp #2.

T. Cable
1959

General Account

29 July - cont -
2045 - made camp on the left limit on a terrace about 1 mile upriver from Sentinel Hill - near an area of numerous ice wedges along the cut bank of the river. Camp # 4.

30 July Colville - near Sentinel Hill - spent the day investigating the tundra between the Colville and Kogosukruk rivers. Beautiful, rolling upland type tundra similar to that around the Meade River coalmine.

31 July Sentinel Hill to Ocean Point -
1220 - departed #4 - clearing skies for the first time since we left Umiat.
1400 - at the mouth of the Kogosukruk
2000 - made camp on shore across from mouth of the Kikiakrorak River.
Skies were mostly clear all day.

1 August Kikiakrorak to Ocean Point -
1200 - departed camp #5
2100 - camped on a silt bar on the right limit a few miles above Ocean Point.

2 August Kikiakrorak to Ocean Point -
1330 - departed camp #6 - overcast sky with strong SW wind blowing.

T. Code
1959

General Account

2 August cont

1500 - at Ocean Point. Also stopped to examine a tall brush area opposite Ocean Point.

2000 - camped a few miles below the old cabin on the right limit - near Pingos.

3 August Below Ocean Point - spent the day inland from camp looking over the coastal plain tundra, some of the pingos and the strang-moor formations.

4 August Below Ocean Pt. - to ca 15 mi below mouth Itkillik -

1130 - departed camp #7. Traveled against a cold north wind all day with mist and some drizzling rain. Bob Main came in, landed, left us some supplies, and we made arrangements with him to be picked up on 5 or 6 August.

2000 - we made camp # 8 at the mouth of a slough about 15 miles below mouth of Itkillik.

5 August Slough camp - in the morning we boated about 2 miles up the slough before the water became too shallow; then hiked out over the tundra for a few miles.

J. Cole
1959

General Account

5 August -cont-
1500- Bob Main flew over us while we were in the field - then on to our camp. We returned, broke camp, and departed around 1730. Arrived in Barrow around 2100.

6 August Barrow - in camp all day making preparations to go down to Umiat with Merl Solomon for second running of the traps there.

7 August Barrow to Umiat - 1300 - Merl and I departed Barrow. 1400 - arrived Umiat. We set out some lines before dinner, marking each end of the lines with large stakes painted red on the tips.

8 August Umiat - I showed Merl the rest of the trap lines and we put up stakes at each end of them all.

9 August Umiat - ready to depart south but could not get on the plane.

10 August Umiat - bad weather - no planes landing south bound - finally got onto a late afternoon plane going up to Barrow. Stayed on as south bound passenger. Met Brewer at the airport for a few minutes. Finally arrived at Fairbanks around 0330 in morning.

T. Cade
1959

General Account

11 August — Fairbanks - 0330 - spent the rest of the "night" in my sleeping bag in a patch of aspen trees along the road a few hundred yards from the airport. 0730 - ate breakfast at the terminal hitch-hiked into town - then out to College. Spent rest of morning talking to Bob Weeden, Sig Olson, Jim Brooks, Jones and others at the state Fish and Game research station on college. Spent the afternoon with Brina. Also saw Marilyn Herried for a few minutes.
2030 - departed via PanAm for Seattle.

12 August — -1230 - arrived Oakland airport.